

DUE DATE SLIP**GOVT. COLLEGE, LIBRARY**

KOTA (Raj.)

Students can retain library books only for two weeks at the most.

BORROWER'S No.	DUE DATE	SIGNATURE

GUIDE TO
INDIAN INDUSTRIAL
STUDIES

GUIDE TO
INDIAN INDUSTRIAL
STUDIES

By M C Mohan, B.A.

Forward Bureau Publications

- Guide to Imperial Government Services,
(3rd Revised and Enlarged Edition)
- Guide to Punjab Government Services
(2nd Revised and Enlarged Edition)
- Guide to Foreign Studies
(2nd Revised and Enlarged Edition)
- Guide to British Studies
(2nd Revised and Enlarged Edition)
- Guide to Professional Indian Studies
(2nd Revised and Enlarged Edition)
- Guide to Agricultural Industries
(2nd Revised and Enlarged Edition)
- Guide to Indian Engineering Studies
(3rd Revised and Enlarged Edition)
- Guide to Small Scale Industries
- Guide to Higher Scholarships
- Guide to Careers for Girls.

Under Print

- Guide to Indian Manufacturers
- Guide to Careers for Indians.
(2nd Revised and Enlarged Edition)
- Guide to Chemical Industries
(2nd Revised and Enlarged Edition).
- Guide to Small Scale Industries
(2nd Revised and Enlarged Edition)
- Guide to Industrial Arts and Crafts.
(2nd Revised and Enlarged Edition).

GUIDE TO INDIAN INDUSTRIAL STUDIES

BY

M. C. Mohan, B.A.

*Director, Forward Bureau,
Editor, The Widows' Cause; Incharge,
Sir Ganga Ram Business Bureau & Library,
General Assistant, Sir Ganga Ram Trust, etc*

and

A. N. Kashyapa, B.A.

Secretary, Forward Bureau.

Third Revised and Enlarged Edition.

Producers : FORWARD BUREAU, Lahore

*Publishers : RAM LAL SURI,
Students Own Agency and Law Books Agency,
Anarkali, Lahore*

Re. 1/8 net.]

[All rights reserved]

PREFACE.

The selection of a line of career is undoubtedly one of the most important question one is ever called upon to consider. It is a great misfortune and ill luck when instead of making a careful and deliberate choice based upon a painstaking study of the aspirations and qualities within one's self and the opportunities around him, of a line of career, to be stumbled into a line whereby many make a sad ruin of the best within them and are destined to rot in shallow waters. Real success and happiness demand a perfect adjustment between the requirements of the line and the personal aptitudes and qualifications of the young men.

The fitting in of a suitable career was never more important than it is to-day. Indian political and economic situations are undergoing constant and rapid changes. Government departments no more offer a fair chance to the youths of the country educated in pure Arts or Science. The need to day is of an education that may offer some other source of living to a young man in case he does not get into a Government or private job. Solution to that lies in receiving expert training in technical or professional sciences. And as industrial education is the need of the day this work has been specially devoted to industrial training available in the country.

Books like this have another direct psychological purpose to serve. Their presence is a constant invitation to the student to deliberate over the choice of a profession or a trade to cover stage of his tiring educational climb. It is not at the end of a University Course alone that attention should be concentrated on the selection of a career.

"In most countries the members of middle classes are found to take a predominant part in and often lead trades and professions. In India, however the educated middle class men have been drawn more towards intellectual professions than intellectual business careers. The result is that professions have been crowded and trade, commerce and industry have been denied the lead of the intelligence which they need for proper development and opening out of such avenues of industrial employments as exist in other civilised countries.

Prospects of industrial careers have not been adequately recognised by the people of India. Reward of industrial and business efficiency is sometimes beyond the greed of avarice. Income of even the cleverest professional men pale into insignificance before the drawings of industrial magnates. A successful industrialist is much better off than a successful man of the so called learned profession or a service man. What is true of the rank is true also of the file. *An average industrial worker is usually better paid than an average clerk or a school master. The humble shoe maker often earns more than a university graduate. The former happens to be always employed while the latter is often in futile search of employment.*

It is high time that the middle class youths and their guardians in India recognise the possibilities of industrial careers. If sufficient numbers of the educated Indian young men choose the industries as their vocation two pressing problems would be solved. First, the industries would be developed and secondly middle class unemployment would be reduced to an adequate extent."

Mohan Cottage,
Mohan Road, Lahore.

M. C. MOHAN.
A. N. KASHYAPA.

ASSAM

Gauhati --Government Weaving Institute.

The aim of the institute is to impart a thoroughly practical and scientific course of training in the up to date methods of hand-loom weaving and preparatory processes.

The following are the courses of instruction —

- I Elementary course of one year for boys.
- II. Ditto ditto for females.
- III Advanced course of one year for boys only
- IV. Short course for professional weavers.

Boys between 15 and 25 years of age, of sound and good physique and who have received some general education are eligible for admission. Preference is given to pupils belonging to the weaving classes

Females who have a working knowledge of either Assamese or Bengali and simple calculations are eligible for admission into the Female Section of the elementary course

There is no restriction as regards age or educational qualification of candidates for the short course

The number of students in the elementary advanced and short courses will not exceed 60 at any one time and not more than 30 will be admitted in any year to the elementary course.

Fifteen stipends at the rate of Rs 12 per mensem are awarded annually to selected candidates for the courses I and III. Of the 15 stipends 5 are reserved for the students of the advanced course

H.R.H. THE PRINCE OF WALES TECH. SCHOOL, JORHAT 3

The sessions for all the first-named three courses begin in July each year ; professional weavers for the short course may be admitted at any time according to convenience.

applications for admission into the first three courses must reach the Weaving Superintendent on or before the 1st July in the form prescribed.

There will be a summer vacation for one month and a half in May and June.

Jorhat :—His Royal Highness The Prince Of Wales Technical School.

The school has two main sections.

(1) a Handicrafts section and (2) a Foreman Mechanic section

The Handicrafts section was opened from August 1927.

Handicrafts Section.

This Section comprises the following courses —

1. Wood Working Class (12 students)
2. Mechanical Apprentice Class (12 students)
3. Motor-Mechanic Class (8 students)

Woodworking Class.

This course is of three years.

The students must have read upto the top class of a Middle School and must be between 15 and 20 years of age.

Mechanical Apprentice Class.

This course is of three years

The students must have read up to the Univer-
sity Matriculation standard and must be between 15 and 18
years of age

Motor Mechanic Class

This course is of two years and is open to those
who have read up to Class VIII of a High school and of 15
years of age.

Hostel arrangements exist.

Sylhet —The School of Handicrafts

There are two courses in the school, viz., wood-work
class and the metal working class. The wood work
includes carpentry and cabinet making and the metal work-
ing includes blacksmithy, turning, moulding, fitting and
grinding.

BARODA STATE

Baroda —Kala Bhavan Technical Institute.

The Courses of Instruction are —

Chemical Technology with a detailed study in either

(a) Dyeing, Bleaching and Calico printing ... 3 years

OR

(b) Oils and soaps (with chemistry) 3 years

Weaving Technology 3 years

Architecture 4 years

Painting 4 years

Photo-Engraving Process 3 years.

In the first five courses technical diplomas are given, while in the last three courses, art diplomas are given.

A. *Technical*

(1) Foundry and Pattern Making 2 years.

(2) Turner, Fitter, Machine Tool Worker 2 years.

(3) Carpentry and Joinery 2 years.

(4) Smithy... .. 1 year.

B. *Industrial*

(1) Dyeing... .. 2 years.

(2) Weaving 2 years.

(3) Soap making 1 year.

(4) Textile Printing 1 year.

C *Fine Arts.*

(1) Photo Engraving Process work 3 years.

(2) Photography 2 years.

(3) Drawing	...	...	...	2 years.
(4) Painting		...	...	3 years.
D. <i>Draftsmanship and Tracing</i>	...		...	2 years.
E. <i>Commercial</i>	.	..	...	2 years.

Note.—Besides the standard fixed for admission, the certificate of Intermediate Drawing Examination is essential or taking either the diploma or the certificate course in painting and the diploma course in Architecture while the elementary drawing examination is necessary for taking the draftsmanship and the tracing course.

Number of students admitted in the courses are —

Chemical Technology with a detailed study in either

(a) Dyeing, Bleaching & Calico printing	20
-----------------------------------------	----

OR

(b) Oils and Soaps	5
--------------------	---

Weaving Technology	30
--------------------	----

Architecture	20
--------------	----

Photo-Engraving Process work	5
------------------------------	---

Painting	5
----------	---

Commerce (certificate Course)	15
-------------------------------	----

To get admission to the Commercial Certificate Course, a student must have passed English VI standard.

For all other certificate courses the standard of admission is the passing of high school standard III or vernacular standard V.

Chemical Technology Course.

This is a three years' course and includes the teaching of pure chemistry and outlines of general industrial chemistry together with a detailed study of either

(a) Textile Chemistry dealing chiefly with the dyeing, bleaching and printing of textiles (20 students)

Or

(b) Technology of Oils and soaps (5 students).

The object of the course is to prepare students who can in due course start small concerns of their own or take responsible posts in the textile dyeing and printing or oils and soaps industries as well as undertake smaller industries, wherein chemistry plays an important part

Those who have passed the Intermediate Science Examination of the Bombay University or an examination of a similar status are likely to be given concession for the first year of the course, while B Sc. students having chemistry as their principal subject can add to their utility considerably by spending one to one and a half year in this Institute and qualifying for either of the largest chemical industries of this Presidency

A student trained in this course can appear for the City and Guilds of London Institute examinations pertaining to his course

Weaving Technology Course

A three years' diploma course is available in weaving Technology. The object of this course is to give a thorough training in hand and power loom weaving industry which will enable the students to start small hand or power loom factories of their own or take responsible posts in the textile mills after finishing their course (For 30 students)

Course In Architecture

The diploma course in Architecture extends over four

years and prepares a student for the diploma of the Institute as well as towards Bombay Government Diploma in the subject.

Knowledge of drawing at least up to Intermediate standard of Bombay Government Art Examination is essential before this course can be taken. In special cases this preliminary course of Drawing and Architectural courses can be taken simultaneously. (for 20 students)

Photo Engraving Process Course.

Note —The instruction is given in Gujarati except in physics and chemistry

This diploma course is of three years' duration. Its object is to provide practical and theoretical training in the fundamentals of the art with a view to enable the student after he leaves the Institute to earn his own living by setting up an independent studio or to get employment in ordinary and colour printing works (for 5 students).

Painting Course

This is a course which extends over four years. The object of the course is to train up students who will be able to start their own studios after having got the diploma of this course. In order to give the greatest benefit to the public this course is given in Gujarati as it is mainly a practical course (For 5 fresh students).

The working session is divided in two terms. The first term generally will commence by the end of June for all new students.

For admission to the diploma course, the standard of admission is that of Matriculation. No entrance examination is necessary for those who have passed the University Matriculation Examination.

Note —A few Baroda State students only who have appeared but failed at the University Matriculation Examination are generally admitted but they may have to appear at the entrance examination in English and Mathematics, but no student should start for entrance examination unless he is informed of it.

The application form which can be obtained from the Registrar, Kala Bhavan, must be filled in and sent before 10th June with an application fee of Rs 2 to be remitted by money order. An application is not considered without this fee which is not refundable. The decision whether an applicant is admitted or not is communicated to him before 20th June by a post card. The admission card must be brought here by those who are admitted.

No student will be admitted after 1st July unless he reserves his seat by sending Rs 10 before 29 June as a part of his fee which will be forfeited after 8th July unless he joins.

BEHAR AND ORISSA

Balasore —Boys Industrial School.

It is a Missionary Institute, but is open to all alike

All boys entering the school must start either in Carpentry or in iron fitting shop. Carpenters may specialize later in (1) cabinet making, (2) painting and polishing, (3) turning and machine operation. Those who start in iron fitting may later finish in (4) blacksmithing and tool-making, (5) Motor driving and repairing (6) Machine fitting and operation (7) Power plant operation (8) Electric fitting and wiring

The length of all courses is four years

The time of entrance is the 1st of January each year

Boys over 12 years of age are admitted. There are no educational requirements but preference will be given to those who have passed the Upper Primary standard

About 30 new students may be admitted to the school each year. 20 in Carpentry and 10 in the iron fitting shop. Tuition is free

Hostel accommodation is provided for Christians and others who are willing to live in the same quarters with Christians

Stipends varying from one anna to six annas per day are available for about 50 boys

Expenses come to Rs 10 per mensem per head.

Bhagalpur —Government Silk Institute.

Applicants should be of good physique and above 14 years of age. Preference is given to those who belong to the weaving classes, and those who own land for castor and mulberry cultivation and are likely to do rearing work after the completion of their studies. Applicants will be admitted after testing their capacity for practical work. Applications should reach the Superintendent by the 30th November of every year for admission into the institute on the 2nd January following.

No tuition fee is charged. Fifteen stipends at the rate of Rs. 10 per month will be awarded to selected candidates.

No hostel accommodation is available in the institute. The approximate monthly expenditure for each student will be about Rs. 15.

There are three courses of instruction —

- (1) Ericulture or sericulture including reeling and spinning.
- (2) Weaving including twisting, doubling, warping, etc.
- (3) Dyeing of various classes of silks such as eri, mulberry and tasar.

Ericulture Course.

The course is thoroughly practical and extends to six months. No standard of general education is insisted upon for admission.

Sericulture Course

It consists of scientific and practical study of rearing of mulberry and tasar worms and climatic conditions, cultivation of their food plants diseases of silk-worms, anatomy of silk worms and moth, the Pasteur system of selecting disease free eggs spinning and reeling. The admission is restricted to those who know how to read and write English and vernacular and three candidates will be admitted at a time. They will have to undergo training for a period of one year.

Weaving Course.

The course is thoroughly practical. It is primarily intended for the benefit of the weavers of the province. The duration of the courses is one year commencing from July. Applications should reach the Superintendent by the first week of May. The number of boys in the weaving section is limited to six.

Dyeing Course.

The course extends to one year and two students will be admitted every year from January.

The period of training will be for six months for embroidery, and one year each for sericulture and dyeing and weaving.

Bogra —The Edward Industrial School.

It is a Government Institute

Subjects taught are Carpentry, blacksmithy and tin-smithy

Qualifications required for admission—Knowledge of Bengali (Lower Primary Standard).

The full course of training extends over three years in each of the three departments. Session commences in April generally. Artisans are admitted throughout the year.

No fees are charged.

There are 25 Government and 10 District Board stipends of Rs. 4 to Rs. 8 p.m.

Hostel accommodation is available for 15 boys.

Approximate cost of each pupil for (a) tuition, and (b) boarding is (a) Rs. 11, and (b) Rs. 15 per month

Cuttack —Orissa School of Engineering

Industrial Diploma Classes.

These classes are attached to Orissa school of Engineering and are intended to prepare students for an active part in modern manufacture. Arrangements have been made at present for training in the following departments —

- (1) Carpenter's shop.
- (2) Cabinet Maker's shop.
- (3) Painter's shop.
- (4) Moulder's shop.
- (5) Smithy.
- (6) Fitting shop.
- (7) Machine shop

The course of instruction will ordinarily cover five years, but a student who fails to complete the course may be

permitted to continue his studies for another year without a stipend

The course of instruction includes lectures in theory as well as practical training in the workshops. All instructions will be given in the vernacular.

Candidates for admission must not be below the age of 12 or above the age of 19, and preference will be given to natives of the province or persons domiciled therein.

No candidate will be admitted, who is not physically fit for hard manual labour

Selection is based on the results of an admission examination followed by a personal interview with the Principal. The subjects of the examination are —

Arithmetic, 100, Geometry 50, Free hand drawing, 50, General knowledge, 50, *Viva Voce*, 150, Total 400 marks

The session begins in July

On satisfactory completion of the course of training, students are eligible for one out of the three classes of certificates as stated below —

(a) An Industrial Diploma to those who complete the full theoretical course and satisfy both the examiners both in theory and the craftsmanship test at the end of the course

(b) A Charge-hand's certificate to those who complete the first three years, theoretical course and satisfy the craftsmanship test

(c) A Journey man's certificate to those who only satisfy the craftsmanship test.

No student shall be awarded more than one out of these three certificates. Students, who are expelled or who leave without completing one of the above courses will not be granted any certificate.

Twelve stipends are awarded to students who are natives of this province or domiciled therein each year in order of merit.

				Rs.
1st year	...	...	...	5 a month.
2nd year	...	...	...	6 "
3rd year	...	...	...	8 "
4th year	...	...	...	10 "
5th year	...	...	...	20 "

One-half of the stipend, earned by each student, is paid to him at the end of the month, the other half is credited to his account and paid as a lump sum on satisfactory completion of the course of the training.

Hostel arrangements exist. A caution fee of Rs 10 is to be paid by every student.

Vacation from the 1st May to the 30th June.

Dehri —Dehri Canal Workshop.

The object of this apprentice class in the workshop is to train artisans in carpentry, fitting, turning, blacksmithing, painting and moulding. Candidates for admission should have either passed or read up to Middle English or the Middle Vernacular examinations and should be 14 to 16

years of age. In any case they will have to appear at the admission examination.

Twelve apprentices are taken once in two years and the period of apprenticeship covers four years.

Sessions begin in July. Expenses come to Rs. 12/- per head per mensem. Wages at Re -/2/- per day are given to apprentices for the first 6 months. Increments of half an anna or one anna are given on the results of each periodical examination.

Gaya —The Wool Weaving Institute.

This institute undertakes to train 15 apprentices at a time. These apprentices are paid stipends of Rs. 5 to Rs 15 a month. Training in blanket weaving on fly shuttle looms and in the milling and dyeing of blankets is given. The period of training is 12 months and may in certain cases be extended according to circumstances.

Admission is made on 1st April of every year and candidates selected are from professional class only. Candidates other than professional class of men can be taken, but they are not paid any stipend.

No fee is charged It is run by government

Giridih .—Beniadih Industrial School.

This school which was founded in 1818. is maintained by the East Indian Railway

The period necessary to complete the course of training is three years. The course is of colliery mechanics.

New boys are admitted in January of each year.

The boys that are admitted into the school must have first passed the Upper Primary Examination.

No fees are charged.

No Hostel arrangements exist. Daily allowances are given to apprentices. 20 students are taken each year.

Muzaffarpur :—Tirhut Technical Institute.

The Industrial diploma classes are attached to the Tirhut Technical Institute, Muzaffarpur and are intended to prepare students for an active part in modern manufacture. Arrangements have been made at present for training in the following departments —

- (1) Carpenter's shop.
- (2) Cabinet maker's shop.
- (3) Painters' shop.
- (4) Smithy.
- (5) Fitting shop.
- (6) Machine shop.
- (7) Pattern shop.
- (8) Foundry.

The course of instruction will ordinarily cover five years.

All instruction will be given in the vernacular.

Candidates for admission must not be below the age

of 15 or above the age of 19, and preference will be given to natives of the province or persons domiciled therein.

No candidate will be admitted who is not physically fit for hard manual labour. For rules about selection for admission, certificates granted, stipends given, session, hostel arrangements, vacation, consult rules about Industrial Diploma class of Orissa School of Engineering, which are similar.

Artisan Class

Students, including the sons of skilled workmen are accepted for training in the following trades —

Leather working.

Oil Engine and Tractor Driving

The length of the course of instruction in leather-working is two years and in Oil Engine and Tractor Driving one year only. Up to fifteen students can be admitted to each class except in the case of engine drivers whose numbers are limited to ten. Instruction is given in the vernaculars.

Candidates should preferably be between the ages of 14 and 18 years and should have passed the Middle Vernacular or higher examination. Candidates who have not passed the Middle Vernacular examination will be examined in reading, writing and Arithmetic before admission.

Artisan students will be paid stipends calculated roughly on the amount they are capable of earning and varying in value from Rs 4 to Rs 6

Patna :— College of Engineering.

It is run by the Patna University.

These classes are attached to the Bihar College of Engineering and are intended to prepare students for an active part in modern manufacture. Arrangements have been made at present for training in the following departments —

1. Carpenter's shop
2. Pattern maker's shop
3. Moulder's shop.
4. Smithy.
5. Fitting shop
6. Machine shop.
7. Garage.
8. Power House.
9. Painter's shop
10. Electrical Fitters shop.
11. Electrical wire man's shop.

For courses of instruction, selection for admission, age, restrictions, submission of applications, stipends, certificates, hostel etc, the conditions are similar to those for Orissa School of Engineering Industrial classes

Patna (Gulzaribagh) —Cottage Industries Institute.

The institute is run on commercial lines and under actual workshop conditions and thus offers to the boys opportunity to learn their trades without being drawn away from actual life conditions and without being deprived of the actual

practice in meeting the problems into which they have to plunge after leaving the institute.

Instruction given in this institute is through the medium of local vernacular, *i. e.* Hindi.

The institute is directly under the management of the Director of Industries.

The institute at present comprises the following departments which are adequately provided with spacious workshops replete with modern tools and equipment —

1. Cotton weaving on hand looms
2. Cotton and wool dyeing
3. Calico printing.
4. Knitting socks hose and neckties.
5. Carpet weaving.
6. Durrie and quilt weaving.
7. Weaving of newar tape lamp wicks, etc.
8. Toy making both of wood and card board
9. Painting of toys

A few apprentices are also admitted into the workshop section of the institute which attends to the repairs and manufacture of improved appliances for cottage workers. No regular classes are, however, held for these apprentices.

The admission to the various departments are usually made at the commencement of the session, *i. e.*, in January of every year and are mainly restricted to the natives of the province. Application for admission should be made in the prescribed form—which can be had from the Superintendent of the Institute on application—through the legal guardian

of the student, so as to reach the Superintendent not later than the 15th December.

While admitting candidates preference is usually given to sons of artisans and those who have previous elementary training in the trade in which they are to specialise.

Candidates who have completed their primary education in any vernacular are admitted. In the case of students for the dyeing section this educational requirement is raised to middle English school standard.

Physical fitness and prospects of employment will be taken into consideration when making the selection for admission.

The Director of Industries may authorise the Superintendent to admit students from other provinces and Indian States in such numbers and under such rules as may be prescribed by the Director of Industries. Application for admission in such cases should be addressed to the former through the Director of Industries of their respective provinces or states.

There is also provision for the training of a limited number of students sent by District Board and Municipalities with stipends.

The number of students admitted every year the minimum age limit for admission and the number and value of stipends available are given below —

Sections.	Number of students admitted	Number of stipends.	Value of stipends.	Minimum age of candidate for admis- sion.
1	2	3	4	5
			Rs.	
Weaving	12	9	15	16 years.
Dyeing	10	6	10	Do.
Calico printing	6	2	10	Do.
Knitting	12	10	5	14 years
Carpet weaving	12	10	5	Do.
Durrie ,	10	6	8	16 years.
Newar and tape				
Toy making	12	10	5	14 years.
Painting of toys	6	4	5	Do
Carpentry and smithy	6	6	10	16 years.

Candidates of more than 25 years of age may be admitted in special cases with the sanction of Director of Industries

No fees are charged from students belonging to Bihar and Orissa In the case of students coming from outside the province the Director of Industries may charge the cost of their training.

The course extends to 12 months beginning from the 2nd of January every year

There is a limited hostel accommodation for out-station students both for the Hindus and the Muhammadans. No rent is charged for hostel accommodation.

Patna (Gulzaribagh).—Government Printing Technical School.

The course of instruction shall be for two years commencing from April.

There shall be no vacation.

The maximum number of admission to the Compositors' class shall not exceed fifteen and to the Letterpress printing and book-binding classes ten each including 1st and 2nd year classes.

Candidates for the Composing class shall be over 14 years of age and shall produce—

(a) a certificate to the effect that they have read up to VIII standard of a high English School or an equivalent or higher examination, and

(b) a certificate of good character

Candidates for the Letter Press Printing and Book binding classes shall be over 14 years of age and shall produce—

(a) a certificate to the effect that they have read up to VII standard of a high English School or an equivalent or higher examination, and

(b) a certificate of good character.

All candidates for admission shall be examined by the Medical Officer-in charge of the Press establishment. Candidates who are not certified to be physically fit shall not be admitted.

Each student shall be paid a stipend of Rs. 5 per month,

A final examination shall be held, in March every year, of the 2nd year class students. Those who pass the examination shall be granted a certificate and shall be eligible for employment in the Government Press, if there are vacancies.

Expenses come to Rs. 15 p. m. per head.

Application for selection and admission are invited by the last week of March each year.

An examination in dictation writing and reading of Manuscript copies are held for candidates to be admitted in Composing class.

For the remaining two classes examination in dictation writing is only taken

The father or guardian of the selected candidates will have to sign a bond to the effect that in the case his son or ward leaves the school during training period or fails to serve in the Government Press, if selected for at least two years he will have to refund the amount paid to his son or ward during the course of training at the school.

Beharees and domiciled students are only admitted.

Patna —Training in Industrial Chemistry.

Arrangements have been made for the training of two graduates in science in Industrial Chemistry at Science College, Patna. The course covers one year's training in the Laboratory and one year's apprenticeship in a Factory. The subjects offered are (1) Oil and fats. (2) Sugar. (3) Electroplating and analytical chemistry. (4) Soap making. (5) Fruit preserving and canning. Two scholarships of Rs 50 p m for two years, are awarded

Phulband (Angul) :—Government Industrial School.

The Phulband Industrial School was opened in June 1920. It gives training in weaving, carpentry and black-smithy. There is a provision for 12 boys in the weaving, eight in carpentry and four in the smithy classes. The boys get a stipend of Rs. 5 a month. The period of training covers three years.

Ranchi —Technical School.

The Institute offers five years' improved apprenticeship course of training in the following trades —

Carpentry, pattern making, cabinet making printing and polishing, moulding, smith's work, fitting, machining electrical fitting and electrical wiring, motor machines.

Candidates for admission should be between the age of 15 and 19 years.

Selection is based on the result of a competitive admission examination up to the middle vernacular standard held in January. The dates of the admission examination and final selection can be ascertained from the Superintendent of the Institute.

The period of training is not less than five years but a student who has failed to become competent within this period may be allowed to continue without stipend until he does so.

The students are not required to pay any fees. A

number of stipends ranging from a minimum of Rs. 5 per month in the first year and gradually rising to Rs. 12 by annual increments are available. In the case of exceptionally meritorious students the rate of stipends may rise to a maximum of Rs. 18 per month in the final year. The annual increments are granted subject to satisfactory progress. A portion of the amount of stipends in excess of Rs. 5 shall be credited to each student in the Post Office Savings Bank and the total amount so accumulated will be paid to him in a lump sum on the satisfactory completion of his training.

A deposit of Rs. 10 must be paid on admission to cover the possible want on misuse or loss of tools.

No candidate will be admitted who is not considered physically fit for hard manual labour. The decision of the authorities of the Institute in this regard must be deemed final.

Every application for admission must contain the following particulars —

- (a) Name, address and occupation of parent or guardian
- (b) Race and Nationality.
- (c) A certificate of domicile in the case of a candidate claiming domicile within the province.
- (d) A certificate from the school in which the candidate was a student last.

Each student on admission is required to provide himself with an efficient set of drawing instruments and the prescribed text books.

Instruction comprises lectures in theory as well as craftsmanship training in the workshop. The teaching is in the vernacular

Victoria Mission :—Victoria Weaving Institute.

is run by the Victoria Mission and imparts training in the following subjects —

<i>Textile.</i> —(1) Weaving			... 1 year.
	Warping and Sizing	...	6 months
	Dyeing	...	6 months.
(2) Carpet Weaving			.. 2 years
(3) Durie Weaving			... 6 months
(4) Sericulture			... 1 year.
	(a) Rearing of Mulberry and Earth Worms		
	(b) Reeling.	(c) Spinning.	

No literary qualification is necessary for admission as the training imparted is wholly practical and demonstrative.

Fee charged is Rs. 30 payable in advance but students from poor classes are admitted free. There is no fixed stipend, but a scale of wages ranging from 2 annas per diem to 8 annas is given according to the work done by the students.

The institute is open for admission throughout the year

Other Institutions in Behar and Orissa,

Khunti Co-operative Home Industries Association Ltd.,
Weaving School, Khunti.

Government Half Time Weaving School, Sah Sarai
(Behar Sharif).

Hazaribagh Reformatory School, Hazaribagh.

Industrial School, Benagaria.

Shelter Industrial School Cuttack.

Industrial School, Chaibassa,

Chowdwar Industrial School, Chowdwar.

Carpentry School, Kathikund

Katkahi Technical School, Katkahi.

* Industrial Classes, Shri Sanmilani, Patna.

Badshah Nawab Razvi Lace and Industrial School,

Gulzaribagh

Cuttack under the English Baptist Mission

Balasore-under the American Baptist Mission.

Shelter House, Cuttack

Ranchi (S P. G Mission)

Khunti (Ranchi) R C. Mission.

Ranchi with three branches in the villages run by R. C

Mission.

Hazaribagh run by D U Mission

Purulia under the Rev. Mr Cannon.

Pathra, Pakur and Maharo Schools in Santal Paraganas run by the Missionaries for Santal Girls. The first is for Hindu and Muhammadan Women, later 10 for Christian Women

Subjects taught are Pillow Lace, Crochet Lace, Shadow Lace, Embroidery, Drawn-thread Work, Handkerchief making Button making, etc.

Girls Knitting and Weaving School, Bettiah (Aided) Institution 3 years Course in Weaving, Knitting, Sewing, Emidry, etc.



BENGAL

Barisal —Government Technical School.

The following crafts are taught —

- (i) Carpentry and joinery
- (ii) Blacksmithy
- (iii) Tinsmithy or metal plate work

Students are admitted at any time during the year. No special educational qualifications are necessary for admission but preference is given to those having some general education.

The course of instruction in each section extends over 3 years from the date of admission.

No fees are charged for training.

There are in all 24 stipends of the value of Rs. 7 per mensem and tenable for 3 years each, for awarding to the poor and deserving students.

Students who successfully pass the Final Examination of the school are awarded half the amount of labour charged on the saleable works done by them during the period of their training in the school, to assist them to start a business.

Every student is required to deposit a sum of Rs. 5 at the time of admission to the school as caution money.

There is a hostel attached to this school where students from all communities may reside. Here the students make their own arrangements for meals and can manage to defray their expenses for messing with about Rs. 7 a month.

The passed students of this school for further training may join the Artisan Class of the Bengal Engineering College Sibpur. The District Board, Baharganj, awards two stipends of Rs. 14 each per month tenable for two years to the native of the district joining the Bengal Engineering College, Sibpur.

Berhampur (Bengal) —Government Silk Weaving and Dyeing Institute.

The session commences from the third week of July each year.

The application for admission, which shall be in the candidate's own hand-writing, should reach the Head Master on or before such date as he may fix, with due regard to the date of the publication of the results of the Matriculation Examination which are notified in the daily newspapers.

Course of Instruction.

Students may take either of the two courses of instructions which this Institute offers, namely, (a) Advanced and (b) Artisan Course —

(a) The Advanced Course is meant for young men with a fair degree of education, who are desirous of being trained up as teachers, officers in factories, and organizers of silk industry.

(b) The Artisan Course is meant for silk reelers and weavers. Preference is given to candidates belonging to the weaver class.

The number of admissions to the Advanced Course is provisionally limited to 20. The course is of 2 years duration.

Candidates between 16 to 25 years of age, of sound and good physique, should preferably have passed the School Final Examination or the Matriculation Examination of any University or Senior Madrasa or have been trained in one of the Mechanical Schools affiliated to the Overseer Examination Board up to the Sub Overseer Standard, to qualify themselves for admission to the Institute.

Ten scholarships of Rs. 10 each a month are awarded to students of the First Year Class on the result of a Special Examination. Ten scholarships of Rs. 10 each a month are awarded to the students of the Second Year Advanced Class.

The Artisan Courses are intended primarily for the benefit of the silk-reelers and weavers of Bengal, but people of other classes may also be admitted. Students with some degree of vernacular education will get preference in the matter of admission.

The number of admissions to the Artisan Class is provisionally fixed at 30.

Fifteen scholarships of Rs. 6 and fifteen scholarships of Rs. 4 each per mensem tenable for one year are awarded.

Rules as to the session and applications for admission are the same as that of the Advanced Course. Admission may also be made at other times at the discretion of the Head Master.

There is no boarding house attached. The average monthly expenses are Rs. 15 nearly.

Two or three stipends each of Rs. 8 per month will be awarded to the students on the result of a competitive test.

Special students may be admitted but they will not get the benefit of Stipends.

Calcutta (337, Upper Chitpore Road,) —The Albert Temple of Science and School of Art.

There are two connected Departments in the school viz.,—Drawing and Art, the latter comprising the following Courses —Painting, Modelling, Lithography, Engraving, Art Teachership, Designing and Draftsmanship.

A student passing through classes of the Drawing Department will be qualified to take up any one of the special courses mentioned above in the Art Department, and may acquire proficiency in that particular subject.

Application for admission is to be made in a prescribed form supplied free from the school to the *bona fide* candidate. It should be filled up by his guardian with necessary information for the guidance of the school authorities regarding the student.

A candidate is expected to possess some knowledge of English and Mathematics so as to be able to understand the lectures and instructions in connection with theoretical portion of the art, though these are generally given by the teachers in Bengali.

The School fees for all classes in the Drawing

Department are Rs. 2, and for all classes in the Art Department Rs. 4; Admission and Transfer fees are the same as school fees.

The session of the school begins from January. But a student may have his admission at any time in a year, with the regular run of the classes if he can manage to make up his deficiency in the meantime and finish the prescribed Course of his class before the Annual Examination.

**Calcutta (80, Jhowtola Road, Ballygunge) —Anjuman
Rafikul Islam Industrial School.**

Tailoring is taught with general primary education. No qualification for admission are required. Session opens through the year. No fees are charged. No scholarships are granted. No hostel arrangement exists. Tuition fee is Rs. 5.

**Calcutta (63, Amherst Street) —Bengal Social Service
League's Industrial School.**

Subjects taught are tailoring, weaving and knitting.

Qualifications required for admission are general knowledge of English, Bengali and Mathematics.

Session and terms —From July.—Two years' course

Fees are Rs. 3 and 4 for A & B classes, respectively.

No Scholarships are granted

Hostel accommodation exists.

Approximate cost of each pupil for boarding and tuition is Rs. 5, and Rs. 20 per month.

The school has a large number of students with University degrees, as well as officers of limited means, who attend night classes.

Calcutta (Entally) — Bengal Tanning Institute.

Session commences from the first week of August, but vacancies are also filled up by fresh recruitments whenever they occur.

The course is of two years, one year at the Chemical Laboratory and another year at the Demonstration Tannery. In the Chemical Laboratory the apprentices are taught analyses of water, lime, and sulphides, oils, soaps, fats and waxes, tanstuffs and tanning chemicals, tanners' sundries and tannery control work. In the Demonstration Tannery they are taught the methods of manufacturing different kinds of commercial leather. The apprentices are encouraged to do themselves several manual and machine operations involved in the manufacture of leather. Theoretical lectures are delivered on (1) Principles and Methods of tanning, (2) Applied Chemistry of Leather Manufacture and (3) Elementary Chemistry both Organic and Inorganic.

Science graduates are better suited to follow the course. Undergraduates and matriculates are also admitted. Claims of non-matriculated candidates who have connection with the leather or any other allied trade through their guardians are considered as well.

Under present arrangement of the 24 apprentices which the Institute is allowed to train at a time, sixteen should be from Bengal and eight from Bihar and Orissa. In case the

full complement of eight are not sent by the Government of Bihar and Orissa the vacancies are filled up by suitable Bengal candidates.

For Bengal candidates there are four stipends tenable for two years, two of Rs. 30 each and two of Rs. 20 each a month. For the former, only graduates in science are eligible and for the latter undergraduates. One of the senior and one of the junior stipends are reserved for Muhammadans and the other two for non-Muhammadans.

At present there is no hostel attached to the Institute

*Prospectus of apprenticeship course in Boot and Shoes
and Leather Goods Making.*

Qualifications for admission are (i) the candidate must have sufficient school education to understand ordinary English.

(ii) He should be healthy and of active habits.

(iii) His guardians must provide him with means to defray his boarding and lodging expenses in Calcutta for one year.

Session commences from the first week of August.

There is no hostel arrangement.

Course is of one year Short courses may be arranged for those who are in the trade.

After passing one can start business in boot and shoe manufacture and leather goods manufacture

**Calcutta (3, Berman Street) —Bengal Wireless
and Telegraph College.**

It is recognised by Railways and Marine.

The certificate of the Director General Posts and Telegraphs (Wireless Branch) Indian, which is granted to students after examination at the Government Wireless Examination Station Calcutta, qualifies the holder for engagement in all parts of the world without further examination or certificates whatever, and on the same terms as operators of other nationalities.

The course is of about six months duration, but special facilities are given to enterprising students who wish to qualify earlier.

Syllabus —Radio Telegraphy and Telephony, application of Radio to Navigating Electricity Physics, Drawing, Mathematics and Mechanics

For the complete course until certificate is obtained irrespective of time Rs. 150 is charged.

For Telegraphy and Technology, Rs 5 is charged for admission and Rs. 6 monthly for tuition Complete course Rs 60 Including Railway Traffic and Coaching the fees are Rs. 10 per month or Rs 80 for the complete course.

**Calcutta (293, Upper Circular Road) —The Calcutta
Deaf and Dumb School.**

There are two departments, namely (a) Literary, (b) Technical. In department (b) the subjects taught are draw-

ing, clay modelling, painting, carpentry and fretwork, sewing and printing.

No special qualifications are required for admission. Deaf and dumb boys above 4 and below 16 years and all girls above 4 and below 11 years of normal mentality are eligible for admission into the school.

The session begins in November each year, and no period is fixed.

School fee is Rs. 5 a month and the admission fee is Re. 1. Boarding fee is Rs. 12 per month and Re. 1 for admission.

There are 30 monthly scholarships to help deaf mutes in their education.

Pupils from other provinces are admitted.

Hostel accommodation is available for 70 pupils.

Approximate cost of each pupil for tuition and boarding is Rs. 15, and Rs. 12 respectively.

This is the premier school in India of its kind and is a non-sectarian institution. There is a normal department where teachers for the deaf mutes are trained. Teachers from different schools all over India come over here to get their training. In fact this may be called the *alma mater* of the teachers of the deaf in India. (The local Government has granted a scholarship of Rs. 15 a month for one student of the normal department.)

Calcutta (12-1, Balaram Ghose's Street) —The Calcutta Orphanage Technical Department.

In the technical department, the boys are taught tailor-

ing and carpentry. The girls are taught sewing, needlework, embroidery, etc.

No time and period is fixed for admission. No fees are charged. No scholarships are granted.

Hostel exists. Boarding expenses come to Rs 15 p m.

Calcutta (69 B Mirzapur St.) —Calcutta School of Cottage Industries.

Students who can read, write and understand in English are eligible for admission. But there is no bar for candidates knowing only Bengali or Hindi language as they are also eligible for admission and as a special case the lectures and notes will be given in Bengali or Hindi as the case may be. Such students must attend cent. per cent. of the lectures and exercises in both theoretical and practical classes.

Admission and interview hours 12 a. m. to 2 p. m. on all working days. Lesson begins from the date of admission.

The cost of the raw materials for the practical demonstration is to be paid separately by the student himself as the finished products thus prepared will be given away to the student.

Soap Courses.

Soap making.—different varieties arranged under 26 courses (a to z). The first three courses being important, theoretical training is compulsory for any of them (a, b, or c)

- (a) Washing Soap Course. (b) Toilet Soap Course.
(c) Medicated Soap Course.

The lessons are Scientific and training is Practical.

Fees for (a) Rs. 15, for (b) Rs. 10 and (c) Rs. 10.

Perfumery Courses.

With tried recipes and practical demonstrations, with details of every process scientifically explained and the secrets of the art fully exposed, one can make them at his home and carry on a roaring sale in the local markets.

Toilet Water Course. Toilet Powder Course. Tooth Powder Course. Tooth Paste Course. Toilet Snow and Cream Course. Hair Oil Course. Perfume Course. Essence Course. Smelling Salt Course

Allied Courses.

Fruit Syrup Course, Ice Cream Course, Ink Course, Medicated Syrup Course, Liniment Course, Liquid extract from Indigenous Drugs, Lotion Course.

Ringworm Ointment	} Fee Rs. 5 each Tried Recipes— With full commercial suggestions.
Pain Balm	
Tincture iodine,	
Vinegar "Surka"	
Mustache Wax	
Scented Incense.	

	Fee	Rs.
Manufacture of candle	...	15
Jintan	...	5
Catechu	...	10
Condensed Milk	...	20
Sodium Silicate	...	20
Office Gum	...	5

Sealing Wax	..	5
French Polish	.	5
Metal Polish	..	5
Disinfectant similar to Phennyl'	...	10
Paint	...	10
Varnish	...	10

Manufacture of Jam and Jellies, Pickles, Chutneys, Sauce, Compound Mustard powder, Food Preservative, Baking Powder, Ice Cream Table Vinegar, Artificial Fruit Syrup, Condensed Fruit Syrup, Digestive Mixture, Safety Matches, Boot Polish, Universal Polish Oil soluble and Spirit soluble Colour Liquid Canvas dressing, Hair Dye, Hair Depilatory, Paint Remover Liquid Magic colour, Photography Junior Course Photography Senior Course.

Tailoring Courses.

Tailoring Business Course Additional Tailoring Course.
Above two combined courses, time 3 months, fee Rs 24.
Sewing Speed Course

Other Courses are Bread course, Biscuit course, Brass Polish, Lip salve, Illuminating Oil Shaving Cream, Shaving Paste, Water proof Black Varnish, Bottle Capping Mixture

Fee of each course range from Rs 5 to Rs 25

Calcutta (15 Raja Dinendra Street) —Calcutta Workman's Institution.

Subjects taught are book binding, signboard-writing and weaving

Qualifications required for admission are Preliminary and general knowledge of the subjects

Sessions and terms —April March.

No fee is charged No hostel accommodation exists.
A few scholarships are granted

**Calcutta (121-B Bowbazar Street) —The City
Telegraph and Commercial College**

This institute has two branches at + 1, Cullen place
Howrah and at Bankipur (Patna).

Technical Department.

Tailoring—

High Standard Course of one and a half year, admission fee Rs. 8, monthly tuition fee Rs. 8 According to full course payment system for 1 year fee is Rs. 100

Intermediate Course is of 9 months, admission fee is Rs. 6 and monthly tuition fee Rs. 6. Full payment system fee Rs. 50.

Special Course, admission fee Rs. 10, monthly tuition fee Rs. 10.

In Full Course payment System, no admission fee is charged. The student will have to pay half the amount of Full Course fee at the time of Admission and the balance in the next two consecutive and equal monthly instalments

Over and above tuition fee, each student of the Tailoring Department will be required to pay Practical fee not exceeding Rs. 10 for the full course.

Calcutta —Government School of Art.

Subjects taught are lithography, wood engraving, clay modelling, papier machie and gesso, book illustrating, illuminating and miniature painting, fine art painting, and art teaching. There is also a department for the training of draftsmen.

Candidates for admission are required (a) to produce certificate of good conduct, (b) to submit works showing ability, and (c) to undergo a test at the school.

Sessions begins in July, but students may be admitted by arrangement at other times in the year. The complete course covers a period of 5 years.

Fees are Rs. 3 and Rs. 5 a month.

A number of scholarships are granted varying from Rs. 2 to Rs. 15.

Pupils from other provinces are admitted.

Hostel accommodation for Hindus only is available.

Approximate cost of each pupil for (a) tuition and (b) boarding is (a) Rs. 13 and (b) Rs. 15 a month.

Calcutta (92 Bow Bazar Street) —The Indian School of Art

Subjects taught are drawing painting, teachership drawing, draughtsman drawing, engraving, lithography, photography, art painting.

Qualifications required for admission are Elementary knowledge in English and vernacular.

Sessions and terms —January. Drawing 3 years , printing, 6 years , draughtsman drawing, 3 years ; engraving, 6 years ; lithography, 6 years , photography, 2 years , art painting, 2 years.

Fees are in the upper classes Rs. 3 per month , in the lower classes Rs. 2 per month.

Pupils from other provinces are admitted.

No hostel accommodation exists.

Calcutta (12, Samaya Mansions) —Indian Society of Oriental Art.

The encouragement and assistance of Indian artists, art students, and workers in artistic industries, by, amongst other means, help given to them by the Society towards the disposal of their works, the holding of Public Exhibitions of works of modern Indian art the award of prizes and diplomas at such Exhibition, as also by such other means as the Society may hereafter determine.

The Studio is open to all students of art of any community.

Intending students will be required to submit specimen of work before admission. In case of Boy-students school or college certificate and a guardian's certificate, must accompany the application for admission.

The teachers will determine the class to which a student may be admitted.

The session begins in June.

Admission fee is Rs. 3 only. Ladies are exempted.

Tuition fee Rs. 3 only per month for both ladies and boys.

The summer vacation is ordinarily the months of April and May

Elementary Course.

An Elementary course of instruction of six months will include —Black-board drawing, Simple Geometrical and Ornamental design Model drawing Perspective, Freehand drawing and Simple Clay modelling.

Intermediate Course

The Intermediate course of a year and a half will include further work in design and perspective Life class, Anatomy, Black and White drawing, Wood cuts, Water-colours, Wood and Stone carving, Lithography, and Commercial Art works.

Final or Advanced Course

In the Final or Advanced course of three years the work of the Intermediate course will be expanded and extended Method of Indian style of painting, and designing for ornaments will be imparted in these years.

A certificate is granted to a student who satisfactorily completes the course.

Calcutta (51 101, College Street) —Indian Wireless College.

Students who have passed at least 1. Sc and below the age of 22 years are admitted to the college.

Practical training and theoretical lectures are arranged. Only apprentices are taken. Allowances amounting to Rs. 180 for the first year are paid. Premium required is Rs. 100.

Calcutta (4, Moyjuddin Jamadar Lane, Ballygunge) —The Karya Industrial School

Young boys are trained in hat making and tailoring. No qualifications are required for admission. No fixed period for session. No hostel arrangement exists. Fees are As. 8 p m.

Calcutta (1 & 3, Nand Lal Bose Lane, Bagh bazar) — Maharaja Cossimbazar Polytechnic Institute

Students exclusively for this department need not have any special qualification and may be admitted at any time of the year.

The Tailoring Branch gives full course of theoretical and practical training in scientific tailoring and cutting, so that the successful student may be able to manage any tailoring business or work as cutters in any firm. Lessons are given in Vernacular or in English. The course extends over one year. Monthly fee Rs. 4. Admission fee Rs. 5. Contract fee Rs. 35. Students are admitted any time of the year. Deaf and dumb students are also taught.

Mechanical Engineering Courses.

(a) *Carpentry* —Two years' course. Monthly fee Rs. 2. Contract fee Rs. 25.

(b) *Smithy and Cutlery.* —Two years' course. Monthly fee Rs. 2. Contract fee Rs. 25

(c) *Machine shop Practice* —Two years' course. Monthly fee Rs. 3. Contract fee Rs. 40

(d) *Electroplating* —Two years' course. Monthly fee Rs. 3. Contract fee Rs. 40

(e) *Electrical Work* —Two years' course. Monthly fee Rs. 3. Contract fee Rs. 40.

Book Binding and Card Board Work.

The Junior Course covering one year. Fee for the entire course is Rs. 15 payable on admission.

The Senior Course extending over two years, covers the Junior course. Monthly fee Rs. 2. Contract fee Rs. 25

Other Courses

Hand loom —Weaving and spinning including dyeing, bleaching and soap making. Two years' course. Monthly fee Rs. 2. Contract fee Rs. 25

Besides there is a short course of practical Hand loom Weaving and Spinning covering six months only. The tuition fee for the entire course is Rs. 20 payable on admission.

Clay modelling —Two years' course. Monthly fee Rs. 2. Contract fee for full course Rs. 25

Bamboo and Cane Work —Two years' course. Monthly fee Rs. 2. Contract fee Rs. 25.

N.B. Technical students other than those who join the contract course have to pay an admission fee of Rs. 5

Expenses Rs. 15 p.m.

**Calcutta (71, Raja Raj Ballav Street, Baghbazar) —
Saraswati Institution.**

Subjects taught are weaving, spinning, dyeing and printing, carpentry and tailoring.

No qualifications are required for admission.

Session begins in January and term for each subject is one year.

Fees for weaving, including spinning, dyeing and printing is Rs. 4, carpentry, Rs. 2, tailoring Rs. 4.

Six scholarships each varying from Rs. 2 to Rs. 15 a month are awarded.

Pupils from other provinces are admitted.

No hostel accommodation exists.

Calcutta — The School of Chemical Technology.

Subjects of instruction are —

Scientific agriculture (analysis of soils and manures, microscopic examination of seeds fibres and plant diseases, study of plant food, inorganic and organic)

Scientific cultivation of drugs and exploitation of forest and other agricultural products by application of Pharmaceutical Chemistry, Botany and Bacteriology.

Scientific utilisation of tanstuffs, estimation and extraction of tannin, preparation of vegetable tannage for Leather Tanning.

Development of public health and prevention of diseases by analysis of waters, foods, drugs and disinfectants.

Bacteriological and microscopical examination of blood, sputum, urine as first aid to medical relief and public health work.

Development of commerce and of mining industries by analysis of ores, coal, shellac and other industrial products.

Soap chemistry and manufacture of pure soap, both toilet and washing free of all animal fats.

Investigation and manufacture of all indigenous herbs and drugs such as belladonna, cinchona, nuxvomica and such other useful medicinal products.

The School is accessible to members of all communities and classes including ladies who hitherto no facilities whatever for gaining knowledge in these directions. Each subject is vast enough to be a life study but the course offered is designed to give, in a clear and concise way as much introduction as will enable an ardent student to pursue the subject hereafter independently and to make an honest living thereby.

A three months special course of intensive work is, therefore arranged for, only one course is to be selected and the whole attention devoted to it. Fee for each course is Rs. 300 payable in advance and inclusive of use of chemicals, appliances and books at the laboratory. Mufassil and foreign students are found suitable boarding accommodation. Charges are about Rs. 25 to 30 a month.

Admission at any time. Matriculation its equivalent or a special pre admission test accepted as a minimum qualification for admission.

Comilla —Elliott Technical School.

The school is under the administration of the District Board of Tiptera

There are now following classes in the school --

- (i) Technical or Elementary Mechanical Engineering class
- (ii) Artisan class.
- (iii) Motor Mechanics class

Artisan Class.

This class is intended for the training of boys for three years in any of the following crafts and trades --

(a) Mechanical Fitting and Turning —Forging, Moulding, Fitting including Sheet metal work, Turning, and Working with Engines and Machines

(b) Carpentry

(c) Blacksmithy.

(d) Tinsmithy —Sheet metal work, Brass Moulding and Fitting.

After three years training they will be able to work as skilful Mistries with the knowledge of Reading Writing, Drawing, Estimating, and manipulation of Modern Tools and Machineries.

Applications for admission into the 1st year Artisan class with certificate of age and character from the Head Master of the school where the candidate read last, or with a certificate of character from a respectable person, are to be made to the Superintendent on or before the 15th

January and the selected candidates shall have to join on the 1st Monday of February, the date of commencement of the Session. Number of new admissions is limited as follows —

Artisan classes —

(a) Mechanical Fitters and Turners class	...	12.
(b) Carpenters class	...	12.
(c) Blacksmiths class	..	8
(d) Tinsmiths class	...	8

If the number of the candidates exceeds the number fixed selection will be made by examining the merits of the students.

Caution money deposit is Rs. 3.

At present there is no tuition fee for the Artisan class.

Forty stipends of values from Rs. 3 to Rs. 7 per month are awarded to meritorious students of the Artisan class.

A Hindu Hostel is attached to the school. Cost of messing is about Rs. 12 p. m. No seat rent is charged.

For Technical or Elementary Mechanical Engineering class and Motor Mechanic class consult Mohan's 'Guide to Indian Engineering Studies'.

Daulatpur (Khulna) —Maheswarpasa School of Art.

The school is recognised by the Government of Bengal.

The following are the subjects of instruction —

- (1) All sorts of Drawing (2) All sorts of Painting
- (3) Commercial Designs (4) Clay modelling (5) Photography
- (6) Bromide finishing.

There is no tuition fee for the students.

The school session commences from June.

The Summer vacation usually takes place in the month of May and June and the Purnā Holidays in October.

The classes of the school are open to all students and outsiders for special study of Art.

Students are required before admission to submit their works showing their ability to profit by the course of study proposed, or to undergo an Entrance Examination or any similar test at the school. In any case of exceptional ability or of previous training proved by examples of works an applicant may be permitted to join a higher class of the school omitting the elementary course, if such is considered desirable by the Principal.

No seat rent and establishment costs are charged

Faridpur —Australian Baptist Mission Industrial School

All branches of cabinet making and elementary blacksmithy are taught.

Boys over 14 years of age of good physique and whole some character are admitted.

Sessions begin in May and November of every year. Course is 3 to 4 years.

Fees are Rs. 8 a month.

No scholarships are granted. But the boys receive a graded wage, ranging from Rs. 8 to Rs. 13 according to grade and ability.

The institution is supported by Government grant of Rs 250 District Board grant of Rs 54 and local contributions amounting to Rs. 85 per month

Pupils from other provinces are admitted.

Hostel accommodation is available

Approximate cost of each pupil for (a) tuition and (b) boarding —(a) Rs. 2 and (b) Rs. 8 per month

Ten seats are reserved for non Christian boys. They are received without fees and are given all the advantages of other boys

Kaurapukur (Tollygunge 24 Parganas) —L M S. Boys Industrial School

Subjects taught are Bamboo work Matting, Carpentry

No qualifications are required for admission

Fee is Rs. 2. No scholarships are granted. No hostel accommodation exists.

Khulna —The Coronation Technical School.

Subjects taught are Carpenter's, blacksmith's, tinsmith's, and brass moulder's work

Qualifications required for admission are Elementary knowledge in vernacular.

No session is fixed. Training is for 3 years. No fee is charged. Pupils from other provinces are not admitted. Hostel accommodation is available.

Approximate cost of each pupil for (a) tuition and (b) boarding is (a) Rs. 9 and (b) Rs. 8 a month.

Mymensingh.—Kashi Kishore Technical School.

It is being run by Local District Board.

Session commences twice in a year once from January and once from June. Students Matric and Non-Matric with certain amount of general education, are eligible for admission to this class. Application for admission in a prescribed form, available in the school, with a certificate of age and character from the heads of the institution where the candidate was last educated should be made to the Superintendent on or before the 10th of January or 25th of June. Students who have passed Matric or I Sc may, however, be admitted on paying their school fees and other dues from January or June at any time to the 2nd or 3rd year class provided their age is below 17 or 18 years as the case may be, and provided they are considered sufficiently qualified for admission to those classes.

Tuition fee is Rs. 3 p. m.

The course extends over three years. But in case of qualified and meritorious students the duration of the course may be reduced from 3 to 2 years or even less. The school has been equipped with the following workshops under competent instructors —

(a) Blacksmith shop (b) Machine shop (c) Fitting shop and Fim smithy (d) Pattern making and Moulding shop (e) Carpentry including polishing (f) Cane and Bamboo workshop

A few stipends, ranging from Rs. 5 to Rs. 10 each will be awarded to the meritorious and deserving students.

Passed students may proceed to a further and more comprehensive Apprenticeship Training in the recognised workshops, where admission is open to those who have passed the admission examination of Board of control for Apprenticeship Training. In the case of Kanchrapara Technical School E. B. Railway all students admitted are given stipends varying from Rs. 40 to Rs. 70 per month during the course of 4 years training in the Railway Workshops.

They may also prepare for the City and Guilds of London Examination in certain subjects.

The final examination is equivalent to the Apprenticeship Admission Examination held by the Board of Control for Apprenticeship Training Bengal.

Hostel arrangement exists

Rajshahi —Diamond Jubilee Industrial School

It is under the management of the District Board.

Artisan Courses.

Carpenter, Blacksmith and Tinsmith and Cane classes

No educational qualification is necessary but boys of workmen are preferred.

The students must have completed at least 13th year for admission.

Students may be admitted at any time.

N. B. Every candidate for admission must apply to the Superintendent in writing along with requisite pass and character certificates by the middle of June.

Course extends over three years

Successful artisans would be able to earn at least Rs 30 per month.

In the carpentry there are four stipends of Rs 4, 5, and 6 each in the 1st, 2nd and 3rd year classes respectively. In the Smithy there are two stipends of Rs 5, 6 and 7 each in the 1st, 2nd and 3rd year respectively. In the Tin-smithy there is only one stipend of Rs. 5 per month. The local Municipality have awarded Rs. 20 per month for stipends to the students of different departments.

There is a hostel. The boarders have to pay only towards their fooding and the part of the establishment charges, which come to Rs 11 per month.

Rangpur —B. G. Technical School

It is being run by the Bengal Government.

The school has four different departments as given below and the students may be trained in one of these branches —

Amin class (surveying etc.)

Artisan class (carpentry)—Three years' course.

Artisan class (smithy)—Three years' course

School Final Examination Science Side Class of the Zilla School (only the practical training—surveying, workshop practice etc. is held in this school)—Two years' course.

The session for Artisan classes commences in August generally, but students are in special cases admitted throughout the year.

Admission to School Final Examination Science Side class is considered in the Zilla School and any candidate who has read up to class IX of any High English School is eligible for such admission.

Admission to the Artisan classes is generally, given to the candidates who can read and write Bengali.

There is no age restriction for admission to School Final Examination Science Side classes. Minimum age for admission to Artisan class is 14 years.

The Artisan students pay no fees. The fees etc., for the School Final Examination Science Side class are realised in the Zilla School.

Four stipends each of the value of Rs. 8 per month are awarded to the four best Artisan students of the 3rd year Carpenter's class selection being made on results of the annual examination.

Four stipends, each of the value of Rs. 7 per month are awarded to the 4 best Artisan students of the 2nd year Carpenter's class, the selection being made on results of the annual examination.

Four stipends each of the value of Rs. 6 per month are awarded to the four best students of the 1st year Carpenter's class, selection depending on the results of an examination held for this purpose.

Eight stipends are awarded to the students of the Blacksmith shop selection being made on results of an examination.

There are four other stipends of the value of Rs. 5 each, which may be awarded to any of these two classes.

Stipends of the value of Rs 5 per month each are awarded to the Artisan students of the Rangpur district by the District Board

For Amin class, consult Mohan's 'Guide to Indian Engineering Studies'

Sibpore —Bengal Engineering College, Workshop.

Boys, preferably the sons of workmen will be admitted for apprenticeship training in any of the following trades —

Carpentry, Blacksmithing Fitting Turning, Pattern making Founding (Brass and Iron) Electrical repairs and Boat building

Admissions may be made at any time of the year at the discretion of the Principal

No educational qualifications are necessary for admission to these classes

Boys may be admitted on attaining the age of 14 years There is at present no superior limit of age

No residential accommodation is available, but arrangements can be made for a mid day meal on payment

At the discretion of the Principal apprentices may be paid stipends up to a maximum value of Rs. 10 a month according to their skill In addition they will be credited with one half of the value of their earnings which will be paid only upon the satisfactory completion of the full course of training If the apprentice leaves before completing this course to the satisfaction of the Principal, he will forfeit the whole of the money standing at his credit

There will be one vacation a year, of one month's duration at the time of the *Durga Puja* holidays.

Serampur —Government Weaving Institute.

Two distinct grades of instruction are given, forming higher and lower classes respectively —

1. To young men of fair education, who may be trained as teachers, managers and organisers of the weaving industry. These form the higher classes.
2. To actual hand loom weavers. These form the lower or artisan classes.

The institute is staffed and administered by the Bengal Government.

Rules for the higher classes —

The number of admissions to these classes in each year is limited to 75. Twenty five per cent of the seats will ordinarily be reserved for Muhammadan students, the claims of eligible candidates in excess of this number will be considered on their merits.

Candidates for admission must have passed the School Final Examination Science Side or the University Matriculation Examination or have been trained in one of the Technical Schools affiliated to the Overseer Examination Board up to the Sub Overseer standard.

The session begins in the third week of July. All applications for admission should reach the Principal on or before such date as he may fix with due regard to the date

of the publication of the results of the Matriculation Examination. They must be accompanied by a registration fee of Rs. 2 to be refunded if admission is refused to the candidate by the Institute authorities and should furnish the following particulars —

(a) Name address and occupation of father or guardian.

(b) Race and religion.

(c) A medical certificate showing that the applicant is in good health

(d) Educational qualification.

(e) A certificate of good moral character from the last Head Master or Principal

(f) An attested certificate of age of the candidate.

Six scholarships of Rs. 15 each a month will be awarded to students of the first year class on the result of a special examination held shortly after the commencement of the session. Five scholarships of Rs. 15 each a month will be awarded to the students of the second year class and four scholarships to the students of the third year class on the results of the annual examination of the first and second year classes, respectively, of the previous year. Of these, two scholarships in the first year class, one in the second year and one in the third year, will be reserved for Muhammadans.

The course of study in these classes extends to three years.

Students who pass the examination at the end of the third year's course will receive a diploma entitled 'Associate of the Government Weaving Institute, Serampore

Rules for the lower classes

These classes are intended primarily for the benefit of Bengal weavers but weavers from other provinces also will be admitted to them.

The session will ordinarily begin in the first week of July. Application for admission will ordinarily be considered in the month of June but admission will also be made at other times at the discretion of the Principal.

The number of admission to the lower classes is limited to 50.

Twenty five scholarships of Rs 6 each per mensem tenable for one year are provided for these classes.

Application for admission should reach the Principal through the authorities of the District Boards, Municipalities, Industrial Schools or other bodies or institutions which provide the applicants with scholarships.

The course of study in these classes extends to one year and instructions will be given through the medium of the vernacular.

Sriniketan (Near Bolpur Station L I R) —The Institute of Rural Reconstruction

Sriniketan was founded in February, 1922 and serves as a complement of Santiniketan—the two together making up the Visva Bharati or the International University founded by Rabindranath Tagore.

Except in the model elementary school called the Siksha Satra, Sriniketan does not conduct any regular teach

ing work in classes. The training given is entirely practical in nature and apprentices are taken in and trained in the following departments of rural reconstruction —

Industries.

This department provides facilities on a modest scale for theoretical and practical study of —

(a) Weaving, (b) Dyeing, (c) Bookbinding, (d) Lacquer-work, (e) Leatherwork (f) Embroidery, (g) Pottery, as well as training in (h) Carpentry, (i) Smithy, (j) Mechanical Workshop

All these aim at developing these industries in their relation to village life.

A limited number of apprentices of both sexes are taken in all the departments and instruction is chiefly practical. The length of the course varying from one month to a year or more is determined by the respective superintendents and depends in each case on the age and previous training of the apprentice concerned. Applicants are admitted at any time of the year according to the seasonal convenience of the various departments and training is continued to be given until he or she has acquired an earning capacity.

The following fees are payable —

Admission Fee	... ..	Rs. 2
Tuition Fee for any period of apprentices, not exceeding one year	...	Rs. 25
Caution Money (to be refunded at the end of apprenticeship period, if course is completed)	... ..	Rs. 5

Laboratory and Wastage Charges to be determined according to individual cases by Superintendents in charge—
 not exceeding Rs. 10

A limited number of free tuitions and scholarships are available for deserving applicants. Concession in fees may be granted to apprentices from Rural areas of the Birbhum district.

Free lodging with minimum furniture is provided for apprentices, and the Institute maintains a general mess run by the apprentices themselves. The food expenses vary from Rs. 6 to Rs. 12 according to the convenience of the members enrolled.

Other Industrial Schools in Bengal.

Diocesan Mission Industrial School, Ballygunge, Calcutta (for girls).

The Refuge Seminary (General and Industrial), 125 Bow Bazar street, Calcutta (Carpentry, tailoring, smithy etc.).

The Mulvany Home Corris Church Lane, Amherst Street Calcutta (For girls)

Vidyasagar "Bani Bhavan" 105 Upper Circular Road, Calcutta (For Hindu widows).

Sakhi Silpa Samity 33, Gariahat Road, Ballygunge Calcutta (For Hindu women)

London Mission Girls' School Tollygunge, 24 Parganas.

L. M. S. Boys' Industrial School, Tollygunge, 24 Parganas

L. M. S. Night School, Tollygunge, 24 Parganas.
(Bamboo Work, matting, Carpentry).

Orphan Boys' Industrial School, Baranagore.

Church of England Zenana Girls' Industrial School,
Baranagore.

Church of England Zenana Widows' Industrial School,
Baranagore

Special Primary and Technical School, Baranagore
(Engineering, Lock making, etc.)

Wesleyan Mission Industrial School, Barrackpore (For
Widows).

Loreto Convent Industrial School, Morapai, 24-Parganas
(For Women).

Baptist Mission Industrial School for Women, Khulna.

R. C. Technical Girls' School, Krishanagar, Nadia.

C. M. S. Technical School, Hat Chapra, Nadia.

L. M. S. Women's Industrial School, Berhampore (For
women).

Wesleyan Mission Industrial School, Raniganj.

Wesleyan Mission Women's Industrial School, Bankura.

Santal Women's Technical School, Sarenga, Bankura.

Bishnupur Industrial School, Bankura.

Bhimpore Girls' Lace School, Midnapore.

American Baptist Mission Women's Industrial School,
Midnapore.

The Dacca Orphanage, Bavi Bazar, Dacca City.

Rohutpur Fishery School, Rohutpur, Dacca.

Hindu Widows' Home, Dacca.

Australian Baptist Mission Industrial School, Faridpur.

Widows' Industrial Home and School, Orakandi,
Faridpur.

Women's Industrial School, Pabna.

Kalimpong Industrial School, Kalimpong.

Industrial Class for Female Students of the Government Weaving Institute, Serampore

Government Weaving School, Bankura.

Weaving School Midnapore.

Government Weaving School Tangail, Mymensingh.

Faridpur Weaving Institute Faridpur.

St. Joseph's Weaving School, Padri Shibpur, Barisal.

Government Weaving School, Pabna

Government Weaving School Malda

Government Weaving School Zorwanganj Chittagong.

Rupkama Weaving School Satkania, Chittagong.

Rangunia Weaving School, Rangunia, Chittagong

Katkara Weaving School Katkara Chittagong.

Government Weaving School, Begumgunge, Noakhali.

Moslem Weaving School, Feni, Noakhali

Hariya Weaving School, Noakhali.

Fatehpur Weaving School, Ramganj, Noakhala

Berhampore Sericultural School, Berhampore.

Primary Sericultural School, Kumarpore, Murshidabad

Kunda Industrial School, P. O. Kunda, Tippera (also cane work).

BOMBAY PRESIDENCY

Ahmedabad —Ranchhodlal Chhotelal Technical Institute.

The Institute is maintained by the Government of Bombay

Medium of instruction is English In all courses English is very important, especially for future progress in technical knowledge and industrial profession Therefore preference is given to those who have passed the Matriculation or its equivalent or higher examination

Courses taught at this Institute are—

1. Cotton Spinning
2. Cotton Weaving
3. Mechanical Engineering

No student is allowed to take up more than one course at a time

The object of the Institute is to develop Mill industry by means of such practical and theoretical instruction as will render those who have passed through the course efficient and will assist them in securing good employments

Fee of Rs 10 per head per term in each section is payable in advance on an appointed date

A fee of Re one is charged as admission fee to those who are admitted without appearing at the entrance examination In addition to term fee, Re one is charged per term as games, water and Library fees.

An average sum of Rs. 20 to 25 per year is the minimum needed by a student to buy books, drawing instruments, etc.

The average cost of living in Ahmedabad will be about Rs. 15 per mensem.

The prospects for trained students are fairly good. A student who passes through one of the courses has a good chance of success in life provided he is intelligent and industrious and his general education is good. Most of the students after completing their course get employments, but a trained technical man has to start low to cultivate further experience so that he has a chance of rising more rapidly in his profession in future.

Candidates seeking admission in this Institute must have passed at least A V school Standard V, and must be above 15 years of age.

All candidates are required to pass the Entrance Examination before admission, but those who have passed the Matriculation Examination or such equivalent examinations will be exempted, the examination is usually held in the latter part of June, in the following subjects —

1. Mathematics (Arithmetic, Algebra) up to the complete course of A.-V. Standard V.
2. Elementary Freehand Drawing from the Black board.
3. English Composition and General Knowledge.

Applications for admissions should be made in the prescribed form of the Institute (available from the Principal). Such applications will be received by the Principal not later than 10th June every year.

The approximate number of students to be admitted in each branch is as follows —

(a) Mechanical Engineering, 30 , (b) Cotton Spinning, 20 , (c) Cotton Weaving, 20.

The period of a full course of instruction in each of the above branches is three years

Academical year is divided into two terms, the first of which will begin on the 1st of June and will end on the 30th November, and the second will begin from 1st December and end on the 31st May This includes the vacation of six weeks in May and June, and that of three weeks in October and November

Students who pass the Final Year Examination at the end of three years are awarded certificates by the Committee of Direction for Technical Education, Bombay Presidency

Students who complete the full course of three years at this Institute in the Mechanical Engineering are eligible for appearing at the Second and First Class Boiler Attendants' Examinations, and also at the Second and First Class Proficiency Examinations in accordance with the revised Rules of the Indian Boiler Act.

Hostel is attached for the messural students, for a limited number of students only

Ahmedabad :—School of Drawing and Design attached to the R. C. High School.

It is a Government Institution

are drawing and design. For Junior

class no entrance qualifications are required. The qualification required for senior class is Intermediate Drawing Examination

Session begins on June 15th.

Tuition is free to the sons of *bona fide* craftsmen —
For others, Rs. 5 per term.

No scholarship is granted Students from other provinces are admitted.

Hostel accommodation exists.

Cost of living comes to Rs. 146 per annum.

Ahmednagar —Salvation Army Industrial School.

It is an aided school

Subjects taught are Handloom Weaving and Agriculture.

No qualification is required for admission.

Session begins in April.

No fees are charged.

No scholarships are granted.

Students from other provinces are not admitted.

Hostel accommodation is available for 50 boys

Cost of living comes to Rs. 144 per annum.

Ahmednagar :—The Sir D. M. Petit Industrial School.

It is an aided institution.

Subjects taught are Carpentry, Electric Wiring, Motor

Driving, Building Construction. Carpentry Drawing Grades 1, 2, 3.

Session begins in July.

Rs. 4 p m. per subject are charged

No scholarship, are granted

Students from other provinces are admitted.

Hostel accommodation is available.

Cost of living comes to Rs. 100.

Qualifications for admission are (a) Carpentry and Carpentry Drawing I II III. (b) Maistry Course (Building Overseer) (c) Electrical Wireman Class II.

(a) 5th Marathi (b) 6th Marathi (c) 6th English

Ahmednagar —S P G. Mission Industrial School

It is an aided Institution.

Subjects taught are Carpentry Building construction, Painting Press work and Canning.

Vernacular Standard IV is the required admission qualification.

Session begins in June

No fees are charged.

No scholarships are granted.

Students from other provinces are admitted.

Hostel accommodation exists.

Cost of living comes to Rs. 96 per annum.

Alibag —Konkan Education Society's Industrial School

It is an aided school.

Subjects taught are Carpentry and Drawing Weaving and Painting.

Vernacular Standard IV is the qualification for admission.

Session begins in June.

No fees are charged.

No scholarships are granted.

Students from other provinces are admitted.

Hostel accommodation is not available.

Cost of living is about Rs. 30.

Ankleswar —Vocational Training School.

It is an aided school

Subjects taught are Agricultural Carpentry Building and Cabinet making.

Vernacular VI Standard is the admission qualification.

Session begins in June.

No fees are charged

Rs. 7 per month is granted.

Students from other provinces are admitted.

Hostel accommodation is available for 40 boys.

Cost of living comes to Rs 15 per month.

Bombay (Parel) —Depressed Class Mission Industrial School.

It is an aided institution.

Subjects taught are Carpentry Drawing, Practical Carpentry, Tailoring and Sign board Painting.

Qualification required for admission is Vernacular Standard IV.

Session begins in April.

No fees are charged.

Some scholarships are granted

Students from other provinces are admitted.

Hostel accommodation exists.

Bombay (Grant Road) —D. N. Poor Boys' Seminary Industrial Class.

It is an aided Institution.

Subjects taught are Carpentry Drawing and Practical Carpentry.

Qualification for admission is a knowledge of reading and writing. Age limit is 13 years.

Session begins in April. Each course is of three years' duration.

No fees are charged.

No scholarships are granted.

Students from other provinces are admitted

No hostel accommodation is available.

Cost of living comes to Rs 30 per annum.

Bombay —Sir J. J. School of Art.

This is a Government institute and the best of its kind in the country.

The course of study in the School of Art comprise Elementary Classes for Drawing and four Advanced Schools respectively for Drawing and Painting, Sculpture and Architecture ; a Normal Class for Drawing Teachers , the Reay Art Workshops for the Applied Arts.

The course of Elementary study includes those subjects laid down in the Grant in aid Code Rules, Schedule I, by the Government of Bombay for the Elementary and Intermediate Grade Examinations. Students not wishing to obtain Government Certificates may take an alternative course.

The Advanced Schools of Drawing and Painting, Sculpture, and Architecture provide instruction to students desirous of following the professions of Painter Sculpture or Architect. By keeping terms in any one of these schools a student is qualified to enter for the Government Examination at which certificates and a final diploma may be obtained

The Normal Class for Drawing Teachers is intended for students who propose to become Drawing Teachers in Government and approved schools

The Reay Art Workshops in which the following artistic crafts are taught by skilled craftsmen—metal work, wood work, stone carving, house painting and decorating—are intended for the instruction of the sons of artistic craftsmen.

Students wishing to join the Elementary School or the Advanced Schools for Drawing and Painting, Sculpture, or

Architecture, must fill up Form A. Copies of this form can also be obtained at the office of the School. The form when completed must be sent to the Director not later than the 31st of March in each year. Candidates for admission to the Elementary School are not required to send in specimens of their work with the form, but those wishing to join the Advanced Schools in Drawing and Painting, or Sculpture, must send in at least six specimens of drawing executed by the student, but those who have passed the Intermediate Grade Drawing Examination of the Government of Bombay can join the 1st Year Drawing and Painting Class direct. These drawing must be accompanied by a wrapper, stamped and inscribed with the student's name and address, otherwise they cannot be returned.

Students seeking admission to the School in Architecture must have passed (1) the Government of Bombay School Leaving Examination or some corresponding examination in another Province, or the Matriculation Examination of the Bombay University, or some corresponding examination in another Province and (2) the Intermediate Grade Drawing Examination of the Bombay Government or a recognised Drawing Examination of a similar standard.

The number of students admitted to the Architectural School is limited and in the event of the number of candidates possessing the above qualifications being greater than the vacant places in the first year class, entrance will be decided by competitive examination. Candidates joining the whole day school will be given preference over those joining for the early morning session only.

The Director has power to admit a student to any course

or class in the School without examination, should he consider the student possesses exceptional artistic qualifications or should the number of applicants for admission possessing literary qualifications, required above be insufficient to fill the first year class.

Students desirous of joining the Normal Class for Drawing Teachers must make their application on Form B. Copies of this form can also be obtained at the office of the School. Candidates must have a good knowledge of English, must have passed the Intermediate Grade Drawing Examination and must furnish the following testimonies of study —

(a) Three sheets of drawing of plant forms rendered in colour. Each sheet must be of the imperial size.

(b) One sheet of a group of Still Life (including fruit or flower) painted in water colours. The size to be half an imperial sheet.

(c) One sheet of a group of not less than three common objects, rendered in pencil, and showing the principal masses of light and shade. The size to be an imperial sheet.

(d) One design for a definite purpose such as a woven or printed fabric, tile work, wall stencil, etc. The motive for this design should be taken from one of the plant studies drawn under (a). The size to be an imperial sheet.

All testimonies of study must be accompanied by a certificate signed by a responsible person, stating that the work submitted has been done entirely by the candidate.

The applications for admission together with the testimonies of studies must be sent in by the 20th of December

in each year. As the number of students admitted to the Normal Class is limited admission will be by competition, should the number of applicants exceed the number of vacancies. Candidates will be admitted according to the merits of the testimonies submitted, and their general educational qualifications.

The Reay Art Workshops

Students are admitted half yearly without payment of any fee on submission of an application in the prescribed Form C duly signed by parents or guardians, preference being given to those students whose parents are practising craftsmen.

All students should have passed the Third Vernacular Standard.

The School of Art Session is divided into two terms. The first term commences on the 10th of June and ends on the 10th of October. The Second term commences on the 10th of November and ends on the 10th of March.

The Reay Art Workshops Session is divided into two terms. The first term commences sometime in the first week of June and ends at the Diwali Festival. The second begins after the Diwali Festival and ends sometime in the first week of May.

The Bombay Government Art Examinations are held in March and Drawing Grade Examinations are held in October.

There are two vacations, one being from the 10th of March to the 10th of June, the other from the 10th of October to the 10th of November. The Bombay Government

Art Examinations are held between the 10th of March and 15th of April.

There being no hostel attached to the School, students must make their own arrangements for their boarding and lodging.

Fees.

Drawing Classes.

	Morning Class	Afternoon Class	Morning and afternoon classes.
	Rs.	Rs.	Rs.
Elementary Grade Class	6	9	12
Intermediate Grade Class	9	12	18

Advanced School.

(Painting)

1st Year	2nd Year	3rd Year	4th Year	5th Year
Rs.	Rs.	Rs.	Rs.	Rs.
12	18	24	30	36

Fee for Mural Decoration is Rs. 36.

(Sculpture)

12	15	24	30	36
----	----	----	----	----

(Special Drawing and Painting)

12	15	18
----	----	----

(Architecture)

1st Year, 2nd Year, 3rd Year 4th Year and 5th Year's fees are Rs. 30, 40, 50, 60 and 75 respectively.

Students allowed to attend the early morning classes only are charged half these fees except in the 4th and 5th years. Students from outside the Bombay Presidency are charged double these fees

The Normal Class.

A fee of Rs. 30 per term is charged for attendance at the Normal Class.

Note —The fees for all classes in the School are for one Term and payable in advance and students should pay them on the date of admission

The Ready Art Workshops.

No fees are charged to pupils in these Workshops

Gymkhana Fee.

All the students of the School are required to pay Rs. 2 for each term.

Students of the Workshops classes may also join on payment of Re. 1 for each Term.

Scholarships.

The Scholarships are of two kinds —

- (i) Open Scholarships.
- (ii) Special Scholarships.

The Open Government Scholarships are awarded as follows :—

- (a) The head scholarship of Rs. 25 per mensem, to be

competed for annually and is open to any student to hold for one year.

(b) The other Government open scholarships are tenable for two years, but the holder of each scholarship can compete with the other students for a further term of two years.

In the special scholarships preference is given

(a) to representatives of special nationalities or districts such as Jews, Cutchis, or inhabitants of Diavanagar and of Kathiawar,

(b) for special kinds of work

Open Scholarships

The following are the particulars of the open scholarships

Advanced Schools.

Eight Scholarships of Rs. 30 each per mensem tenable for two years for the class of Mural Decoration

One head scholarship of Rs. 25 per mensem tenable for one year.

Painting Classes.

Two Mayo scholarships of Rs. 10 and Rs. 15 p m.

One scholarship of Rs. 7 per mensem

Drawing Classes.

Three scholarships of Rs. 5, Rs. 6 and Rs. 7 p m

Sculpture Classes.

One Mayo scholarship of Rs. 10 per mensem.

Four Government scholarships for Non-Brahmin Backward Classes, 2 of Rs. 12 and 2 of Rs. 15 per mensem.

Entrance Painting Scholarships.

Two scholarships of Rs 5 per mensem.

Architectural Classes,

Four scholarships of Rs. 5 to Rs. 10 per mensem.

Elementary Schools.

Five scholarships of Rs 5 per mensem.

Reay Art Workshops Scholarships.

Scholarships of the value of Rs 10 per mensem are awarded to those scholars who show industry and proficiency in their work. In each class one head scholarship of Rs 20 per mensem is awarded to the student who completes the course and continues to attend the class.

Special Scholarships.

"The Lord Hardinge Scholarship" of the annual value of Rs 540 shall be awarded to a student of either sex of Sir J. J. School of Art, Bombay who has shown the highest standard of proficiency in painting or modelling in the course of his training and at the Diploma Examinations in Painting or Modelling.

"Vinayak Vasudeo Scholarship" of the value of Rs. 8-12 per month, tenable for two years shall be awarded annually to the student who will produce the best drawing from nature.

Gavarishanker Udayshanker Scholarship of the value of Rs. 8-12 p. m. tenable for 3 years

Sassoon Scholarship of Rs. 10-8 p. m. tenable for 4 years

Sorabji Jamsetji Founder's Scholarship of the value of Rs. 15 per mensem.

Rao of Cutch Scholarship.

The primary object of these scholarships is to assist natives of Cutch in prosecuting their studies in the advanced department of the School of Art. For this purpose, after the 1st year one scholarship will be awarded biennially, tenable for two years of the value of Rs. 18 per mensem.

Two of the scholarships, of the monthly value of Rs. 24 and Rs. 18 respectively, will be allowed to the Atelier, Architectural Sculpture and one of the value of Rs. 16 p. m. will be assigned to the Atelier, Advanced Painting.

The Shapoorji N. Chandabhoy F. R. I. B. A., Scholarship

A scholarship of Rs. 17-8 by twelve monthly instalments to a Parsi student who has taken up Architecture as his study and who by reason of his marked ability and poverty is deserving of being awarded the scholarship.

Class of Mural Painting.

The object of this Class is to study and revive the Arts of Indian Decorative Design and Painting, particularly as applied to the Decoration of Buildings. This is the most advanced Class in Painting in the School of Art and selection to it is by merit only.

Normal Training Class for Drawing Teachers.

The course of study extends over one full Session from June to March.

In selecting candidates for admission to the Normal School preference will be given to students whose general education, apart from drawing, will enable them to take full advantage of the courses of instruction. Candidates who have passed the School Final or the Matriculation Examination and whose testimonies of study required by Rule 124 of Schedule I of the Grant in Aid Code Rules reach the proper standard will be given preference over candidates with lower educational qualifications.

The purpose of the School is to train students intending to take up the teaching of drawing as a profession, and to afford a further training to Drawing Teachers already employed in schools.

Ray Art Workshops.

The course in each class is of 3 years.

Students are taught to draw and design for their particular crafts.

The classes are held in—

Cabinet making Engraving and Enamelling Gold and Silver, Copper and Brass and Repouse Beating. House Painting and Decoration. Iron work Stone Carving Wood Carving, and Shape making Class for gold, silver and copper.

FORM B.

*For admittance to the Normal Training School
for Drawing Teachers.*

Date of application
 Name (with father's name and surname) ...
 Caste or race Age... ..
 Birth place and native place
 Where educated and how far
 Languages known
 Year of passing the Intermediate (or 3rd Grade)
 Drawing Examination and Centre
 University or other examinations passed and year...
 Where employed as Drawing Teacher, in Government
 or Aided School
 Date of employment
 Whether passed through the Painting Course of
 the School of Art Bombay
 Address of the applicant
 Responsible person's signature in full with address

"I hereby agree if admitted to conform to rules and regulations at present in force or that may be hereafter made for the Government of the School and I undertake that so long as I am a student of the School, I will do nothing either inside or outside the School that will interfere with its orderly Government and discipline.

Applicant's Signature ...

N. B.—This form should be accompanied by specimens of work done by the applicant which must reach the Principal by the 20th December in each year.

FORM C.

For admission to the Reay Art, Workshops.

Class into which admission is sought	..	.....	.
Applicant's name with father's name and surname	.....	
Address	....	..	....
Caste or race	.....	Date of birth	.. ..
Birth-place and native place	..	..	..
Where educated	..	..	.....
What examination passed.	{	School	.....
		Drawing	..
Language known	....	..	..
Previous employment, if any	....	..	..
Proposed future employment	....	..	.....
Responsible person's signature in full with address	.....	

"I hereby agree, if admitted, to conform to rules and regulations at present in force or that may be hereafter made for the Government of the School and I undertake that so long as I am a student of the School, I will do nothing either inside or outside the School that will interfere with its orderly Government and discipline."

Applicant's Signature _____

Remarks ...

Date

Date _____

Signature... ..

Bombay —Textile Technical School of Social Service League.

Spinning, Weaving and all their processes are taught.
One employed in a mill and knowing reading, writing,

and simple calculations (Marathi language) is admitted.

Session begins in June.

No fees are charged.

Scholarships of Rs. 3 each are awarded to all students.

Students from other provinces are admitted.

No hostel accommodation is available

Cost of living comes to Rs 100 per annum

Bombay (King's Circle Matunga) — Victoria Jubilee Technical Institute

The Institute is not affiliated to the University but is recognised by the Government of Bombay as the Central Technological Institute, Bombay Presidency

The Institute affords instruction and training in the following departments —

	Annual admissions
A. Mechanical Engineering	40
B. Electrical "	40
C. Textile Manufacture (Cotton)	40
D. Technical and Applied Chemistry embracing course in —	
(a) Paints & Varnishes, (b) Oils & Fats, (c) Soaps & Candles, (d) Sizing Bleaching and Dyeing, (e) Foods, Drugs and Gene ral analysis.	20
E. Sanitary Engineering and Plumbing	20

First, second and pass class Technological Diplomas are given on the results of the final examination

Each course extends over four yearly sessions and a Diploma or Certificate (according to the standard attained) is awarded by the Board of the Institute to each student who completes his course and passes his Final examinations.

Diplomas—A.—L. M. E. or Licentiate in Mechanical Engineering.

B.—L. E. E. or Licentiate in Electrical Engineering.

C.—L. T. M. or Licentiate in Textile Manufacture.

D.—L. T. C. or Licentiate in Technical Chemistry.

E.—L. S. E. or Licentiate in Sanitary Engineering.

Textile Manufactures Course.

This course is of four years (8 terms) duration and includes considerable amount of Machine Drawing, Applied Mechanics, Steam and Heat Engines and Applied Mathematics which although not carries so far as in the Mechanical and Electrical section, is still sufficiently comprehensive to cover all requirements. Chemistry, bleaching, sizing, dyeing and finishing are dealt with to a considerable extent, and a department for hosiery and thread making is shortly to be established

The course has been arranged to meet the demands of the mill industry in India, and is intended to give a sound practical and theoretical training to men, who will ultimate-

possible, arranged to illustrate the lectures ; it serves a useful purpose in that actual practical work performed by the student himself is more beneficial than merely watching experiments performed during a lecture.

At the beginning of the 3rd year, the students are allowed to choose one of the following courses —

- (a) Oil extraction, purification, deodorisation, etc.
- (b) The manufacture of soaps and candles
- (c) The manufacture of paints and varnishes.
- (d) Foods and drugs analysis.
- (e) Textile and Tinctorial chemistry

The object of the first three branches is to train up men who can utilize the raw materials indigenous to India and also to supply an already existing market, which at the present time draw its supplies from abroad. The object of the fourth branch is to train men capable of undertaking a very important duty, namely, the examination and detection of adulteration in the common articles of food, etc

This department is also of use in imparting a knowledge of the chemical principles involved in mechanical and electrical engineering and in the textile industries. For this purpose special course of lectures and laboratory work are arranged for each of the branches. During the first year all students of the Institute undergo an elementary course of training in this Department. In the 2nd and 3rd years there is a course for Textile students in Sizing, Bleaching and Dyeing and for the Sanitary students suitable for their special requirement.

For the Mechanical and Electrical students there is a

course of lectures on oils, fuels and flue gases. This subject is treated as far as possible from a practical point of view and students carry out tests on such material as coal, producer and flue gases and on oils actually being used for lubrication etc.

For Mechanical Engineering Electrical Engineering Sanitary Engineering and Plumbing Courses consult Mohan's 'Guide to Indian Engineering Studies'

Admission

Applications for admission which shall be in the candidates own handwriting must be made about the 3rd week in May in the prescribed form. No application will be registered unless it is accompanied by —

- (1) A certificate that the candidate is above the age of 16 years and is constitutionally sound, and
- (2) A certificate that the candidate possesses the required pecuniary ability to go through the course.
- (3) Certificate as to the Domicile of the applicant.

An entrance examination of the standard of Matriculation examination of an Indian University is held every year in June which all candidates except those who have passed the B. A. or B. Sc. examination of a recognized University are required to pass before being admitted. A fee of Rs. 5 is charged to candidates for registration of their applications for admission to the Institute, at Bombay

The exact date of this examination will be notified in the Press.

Candidates for admission to the Institute must pass the

Entrance Examination of this Institute, which is held early in June at the Institute and at *Madras* in the Government Trades School, Broadway, at *Calcutta* in the Calcutta Technical School, 110, Corporation Street, and at *Patna Lahore, Cawnpore* and *Nagpur* under the supervision of the Director of Industries. Preference will be given to candidates who have passed the First Year's course in a college affiliated to a recognised University

In admitting candidates, applications from *bona fide* Bombay Presidency candidates will be considered first.

Papers of the previous Entrance Examinations are not circulated.

Printed application forms can be obtained from the Principal of the Victoria Jubilee Technical Institute, Bombay, and must be returned duly filled in and accompanied with a registration fee of Rs. 5 in case of candidates taking their Entrance Examination at the V. J. Technical Institute, Bombay, and Rs. 10 in case of candidates wishing to sit for the Examination at any centre mentioned above, other than V. J. T. I., Bombay, so that they reach this Institute at least 8 days before the date of the Entrance Examination, after which date no application will be received. The registration fee is not returnable.

Except the registration fee of Rs. 5 or Rs. 10 as the case may be, no money will be received from intending candidates as Dormitory rent, deposits, fees, etc., before the declaration of results of the Entrance Examination.

The following will be the subjects of Examination :—

English Composition.—A short essay on some subject

one paper of one hour's duration, 125 marks.

Mathematics—(a) Arithmetic the whole, and (b) Algebra up to Quadratic Equations—two papers, each of one hour's duration—Total marks 150—225 for each paper.

Freehand Drawing—Copying a sketch—one hour. 50 marks

General knowledge—One paper of one hour's duration 75 marks—This paper is not restricted to any particular subject and consists of questions set to test the general knowledge and information possessed by candidates.

The results of the examination shall be declared within a week from the commencement of the examination by notice put up on the notice board of the Institute showing the examination numbers of the candidates who have obtained admission.

Note.—Candidates who have passed the Entrance Examination but may have failed to secure admission to the course named in their applications, may be admitted to other courses in which vacancies occur. The authorities are willing to help intending students to select a suitable course of instruction. To take more than one course at a time is not permissible.

Fees.

The fees are Rs. 55 per term for each course of eight terms, for *bona fide* students of the Bombay Presidency (excluding Native States) and Rs. 80 per term for each

course for students other than Bombay students. Each student has, in addition, to pay Re. 1 as subscription for the Institute Journal, Re. 1 on account of Drawing Board rent and Rs. 3 as Gymkhana fee per session.

The question of Domicile is decided by the Institute authorities and their decision is final.

A deposit of Rs 50 must be paid by every student before the commencement of the first term.

Session.

The Session or year commences about the fourth Monday in June and consists of two terms the first term commences on the above day and ends on the first Saturday in October; the second term begins on the second Monday following the first Saturday in October and ends on the second Saturday in February.

There are two vacations Winter vacation and Summer vacation.

Studentships and Scholarships.

The following free-studentships and scholarships are awarded on the results of the annual examinations.

Three Free-studentships, to be called 'The Sir Dinshaw Maneckjee Petit, Knight, Free-studentships,' each of the value of Rs. 100 and each tenable for 3 years to be awarded to 3 Parsee students.

Three scholarships, to be called "The Joshua King Scholarships" of the value of about Rs. 120 per annum each, usually tenable for three years

Two free studentships to be called "The Tapidas Free studentship" each of the value of Rs. 100 per annum, tenable for 3 years.

A Free studentship to be called "The Abdoola Hajee Dawood Free Studentship" of the value of Rs. 100, tenable for three years.

The entrance Maharao Khengarji Free studentship of the value of about Rs. 100 per annum, to be awarded once in every three years.

Amir Ali Murad Scholarship open to Mohamedans domiciled in Sind of the annual value of Rs. 300, ordinarily tenable for a period not exceeding 4 years.

Three "The Nowrozjee Furdunjee Fee Prizes" of the value of Rs. 43

The Nowrozjee Furdunjee first scholarship of the value of about Rs. 60.

The Lord Reay Scholarship of the value of about Rs. 115 per annum tenable for one year.

The Professor Henry Fawcett Scholarship of the value of about Rs. 102 per annum tenable for one year.

One Nowrozjee Furdunjee second scholarship of the value of about Rs. 120

The Dwarakadas Vasanji scholarship of the value of Rs. 108 per annum tenable for one year.

The Maharao Khengarji First scholarship of the value of Rs. 105 per annum tenable for one year.

The Maharao Khengarji Second scholarship of the value of Rs. 110 per annum tenable for one year.

One scholarship of the value of Rs. 220-8-0 to be called "Vishnu Shastri Bapat scholarship" to be awarded to a student who obtains the highest marks in all practical examination

Two Scholarships to be called 'Hon'ble Sir Fazulbhoj Currimbhoj Ebr him Scholarships' each of the value of Rs. 144 and tenable for four years

One scholarship to be called "The Bai Dossibai Dhunjabai Cowasji Setina Scholarship" of the value of Rs. 112-8-0.

One scholarship to be called 'The Bai Aibai Kavasji Bejonji Setina Scholarship' of the value of Rs. 112-8-0.

The Arjan Dewsy Free-studentship of the value of about Rs. 132.

Eleven special Scholarships of the value of Rs. 35 per month each tenable for 4 years awarded to 'Intermediate Hindus, Non-Mohamedan Backward classes, including untouchables and depressed classes, and Mohammedians whose permanent homes are in the Bombay Presidency British districts only.

Four Scholarships to be called 'The R. D. Tata Memorial Scholarships' each of the value of Rs. 110-4-0.

One Scholarship of the value of Rs. 135 to be called the H. B. Shepherd Memorial Scholarship will be awarded annually.

One scholarship to be called "Sadashiv Hemraj Scholarship, of the value of Rs. 94-8-0 to be awarded to a student of Brahmakshatriya community tenable for 4 year.

The Institute conducts the City and Guilds Examinations on behalf of that Institute each year.

There is a Students' Hostel attached to the Institute with accommodation for 156 students in 78 rooms. The rent payable in advance is Rs. 36 per term per student for ground floor accommodation and Rs. 42 for first floor accommodation. Dining and cook rooms are provided, and students form themselves into clubs and arrange for their own food supplies and cooking. Accommodation in the Hostel is not allotted to any candidate until he has passed the Entrance Examination and has been admitted to the Institute. The rent includes the charge for electric light, and in addition to the rent each Hostel resident has to deposit Rs. 10 as Caution money.

The average monthly expenses of a student, inclusive of fees, board, lodging, books, tools, etc. are about Rs. 50-55.

Applications are accepted only on the official printed Application Forms which are obtainable from the office of the Institute. Each candidate for admission must submit such an application form, complete in all respects and accompanied by a Registration Fee of Rs. 5 (in the case of a candidate who wishes to appear for examination in Bombay) or Rs. 10 (in the case of any other candidate), so as to reach the Institute at least eight days before the date of the Entrance Examination.

Application Form.

(The candidate should write the Centre at which he intends to sit for the examination.)

Sir,

I request admission to the..... ..Course of the Institute. The required particulars and certificates are forwarded herewith. Alternate Course

I am, etc

Full Name

Father's Name

Surname

Date of Birth Religion.....

Caste Sub Caste

Birthplace District....

Presidency... ..or State...

Present address

School or College last attended

Highest Standard Passed

(True copy of certificate must accompany this form)

Address of parent or guardian with whom the Institute may communicate.

Name... ..

Address

DeptSessionDated ...

No 1.

I certify that the applicant is above the age of 16 and that his constitution is sound.

.....

Last Medical attendant.

No 2.

I solemnly affirm that I possess the pecuniary ability to go through the full course which I desire to take and that I am not likely to leave the Institute on account of pecuniary difficulties.

.....Applicant.

Bordi —A. R. Sonawalla Industrial School.

It is an aided Institution

Handloom weaving is taught.

Vernacular Standard III is the qualification for admission.

Session begins in June.

No fees are charged.

No scholarship are granted.

Students from other province, are admitted.

Hostel accommodation is not available.

Cost of living comes to Rs. 22 per annum

Borsad —I. P. Mission Industrial School.

It is an aided School

Carpentry Carpentry Drawing and Tailoring are taught.

Vernacular V Standard is the qualification for admission.

Age should be above 13 years

Session begins in April

No fees are charged. No scholarships are granted.

Students from other provinces are admitted.

Hostel accommodation is available

Cost of living comes to Rs. 122 per annum.

Dhulia —King Edward VII Technical School.

It is run by the Local Board.

Manual Training, Maistry work, Weaving on different kinds of looms and the Mechanical Engineering are taught.

Vernacular Final Examination or English standard V is the qualification for admission to Mechanical Engineering class. Vernacular standard III for Manual Training and Weaving class courses respectively. Candidates are admitted into the Maistry class after the completion of the Manual Training course

Session commences from 1st April.

No fees are charged.

Some scholarships to the amount of Rs 1000 are available

Students from other provinces are admitted.

There is no hostel.

Expenses come to Rs. 145 per annum.

Jacobabad — Technical School.

It is run by the Municipal Board.

Geometry, Carpentry, Inlaying, Fret work, French polishing, Painting Sign-board making, Wood turning, Iccquer work, Smithy Metal work Brass casting, Lock making, Picture frames, Drawing-plan Elevation with Scale, Isomet real drawing, Plane and solid Geometry. Freehand drawing and Colouring are taught.

Boys of 14 years of age or above who have passed Vernacular IV Standard are admitted to Manual Training class and under 14 to other branches. Course is of three years.

No Fees is charged.

A few scholarships are granted.

No hostel accommodation is available.

Cost of living comes to Rs. 112 per annum.

Manmad —S. B. Industrial School

It is an aided school.

Carpentry Smithy, Handloom and Tailoring are taught.

Vernacular V Standard is the required admission qualification.

Session begins in June.

No fees are charged.

No scholarship are granted.

Students from other provinces are admitted.

Hostel accommodation is available for 50 boys.

Cost of living comes to Rs 70 per annum.

Nadiad —Nadiad Industrial and Engineering Institute.

It is an aided institute.

Machine Shop Practice, Metal Chipping and Filing, Fitters Trade, Smithing, Carpentry, Automechanics and Driving, are taught.

Qualifications for admission—Vernacular IV Standard. Physically fit, and age over 16 years.

Session begins in March.

No fees are charged.

Scholarships are granted are from Rs. 4 to Rs. 10 per month.

Students from other provinces are admitted.

Hostel accommodation is available.

Cost of living comes to Rs. 175 per annum.

Nasik (Panchwati) —Mechanical Engineering School.

It is an aided school.

Apprentices are trained in Mechanical Engineering.

V Standard English or VII Standard Vernacular is the qualification required.

Session begins in June

No fees are charged.

Wages from annas 5 to Re. 1 per day are paid.

Students from other provinces are admitted.

There is no hostel.

Cost of living comes to Rs. 300 per annum.

Pandharpur (District Sholpur) —Robertson School of Industry.

It is run by Municipal Board.

Subjects taught are Carpentry Drawing, Practical

Carpentry, Smithy work, Turning and Building Construction

Vernacular IV Standard is the qualification for admission

Session begins in April. Course is of three years duration

No fees are charged.

No scholarship is granted.

Students from other provinces are admitted.

Hostel accommodation is not available

Cost of living comes to Rs. 65 per annum.

Poona —Empson Workshops and Technical School

It is an aided Institution.

Subjects taught are Carpentry, Carpentry Drawing and Wood work Technology.

Primary Standard III is the qualification for admission.

Three Years Course —January to June.

No fees are charged

Scholarships are granted up to Rs. 12 per mensem.

Students from other provinces are admitted.

Hostel exists for Christians only.

Cost of living comes to Rs. 200 per annum.

Poona :—Mannual Art Society's Industrial School.

It is an unaided institution.

Subjects taught are Drawing, Fine Art Painting, Clay modelling, Wood carving, Cabinet-making, Sign-board and house decoration, Cutting, and Inlaying, etc.

Vernacular Standard IV is the qualification for admission. High School and College students are also admitted

Session begins on 20th June.

Fees for the Elementary Course is Rs. 5 p. m.

Intermediate , Rs. 10 p. m.

Advanced ,, Rs. 15 p. m.

Some scholarships are granted.

Students from other provinces are admitted.

Hostel accommodation is available.

The cost of living comes to Rs. 30 including boarding, lodging etc.

Poona —Victoria Jubilee Technical School.

It is run by Municipal Board.

Carpentry Drawing, Machine Drawing, Practical Carpentry Brass casting, Wood and Metal Turning, Polishing, Sign-board Painting, Drawing for Intermediate and Elementary Drawing Examination, Smithing, Press work and Mistry class are taught.

Qualification for admission Vernacular V Standard.

Age should not be less than 14 years.

Session begins in April.

No fees are charged.

A few scholarships are granted

No hostel accommodation is available.

Expenses varies from Rs 218 to Rs. 230 a year.

Ratnagiri —School of Industry.

It is run by the Local Board.

Carpentry Drawing, and Practical Carpentry, also Metal work are taught.

Vernacular III Standard is the qualification for admission

Session begins in April.

No fees are charged.

Some scholarships are granted

Students from other provinces are admitted

Hostel accommodation is not available

Cost of living comes to Rs 73 per annum.

Satara —School of Industry.

It is run by Local Board.

Subjects taught are Carpentry, Smithy and Technical Drawing.

Vernacular Standard V is the qualification for admission.

Session begins in June.

No fees are charged.

A few scholarships are granted

Students from other provinces are admitted.

Hostel accommodation is not available.

Cost of living comes to Rs. 125 per annum.

Sukkur — V. J. Technical School.

General Carpentry and General Iron work Carpentry, Machine drawings Wood work Technology etc are taught

Qualification for admission is Vernacular IV standard.
Age required is 14 years.

Session begins in April.

Course is of three years duration

No fees are charged to Work shop students.

There are 21 scholarships each of Rs 12.

Students from other provinces are admitted.

Hostel accommodation is available.

Cost of living comes to Rs. 138 per annum.

Surat —Drawing and Design Class.

It is an aided institute.

Subjects taught are Drawing, Carpentry, Smithy, Carving

Lacquer work, Painting, Weaving, Embroidery, Lace work

No special qualification is required for admission.

Session begins on 15 June.

Fee is Rs. 4 per term from boys of non-artisan classes.

Boys of artisan classes are admitted free

No scholarships are granted

No hostel accommodation is available.

Cost of living comes to Rs 10 per mensem.

**Surat (Sonī Galla) — Fardunji Sorabji Parekh
Technical Institute.**

The Institute is managed by the Surat City Municipality.

The languages of instruction are mainly Gujarati and English.

The Institute enjoys Summer Vacation in May June and Winter Vacation in October November.

Three years' graduated courses of instruction are given at present in each of the following branches, viz., 1. Mechanical Engineering, 2. Workshop Apprentice Courses 3. Carpentry and Furniture-Making, and 4. One year's Electrical Wiremen's Course.

A fee of Rs. 11 per term is charged to each student of the Mechanical Engineering and Electrical Wiremen's Courses, and a fee of Rs. 3 per term is charged to each student of the Apprentice Courses.

Applications for admission should be sent to the Super-

intendent on or before the 5th June in the printed prescribed form together with the School leaving certificate.

Candidates for admission to the Mechanical Engineering must have completed their 15th year. Gujarati students who have studied upto English V Standard and non Gujarati students who have passed English VI Standard are admitted in the Mechanical Engineering. The first preference will be given to those who have passed the Matriculation or studied upto English VII Standard. Only a few selected Gujarati students who have passed Vernacular Final or English III Standard will be taken up in the Mechanical Engineering as an exceptional case.

Students who are over 12 years of age and who have studied upto the Vernacular IV Standard are admitted in the Workshop Apprentice Courses, Carpentry and Furniture-making Classes, and Electrical Wiremen's Course.

The municipal scholarships of the average monthly value of Rs. 1 to 5 each are awarded according to the funds.

There are seven scholarships of the monthly value of Rs. 8 each awarded by the District Local Board to the poor and intelligent students who are natives of Surat District. Two monthly scholarships valuing Rs 15 each, tenable for a period of one year are awarded by the Government.

A Hostel or Boarding House is attached to this Institute.

Surat —Mahajan Home Hindu Orphanage.

It is an aided institute.

Carpet weaving, Handloom weaving and Zinc work are taught. No qualification is necessary. Only poor Hindu children are admitted

No fees are charged.

No scholarships are granted.

Hostel accommodation is available.

Cost of living comes to Rs. 106 per annum.

Sirur:—Sir D. M. Petit Industrial School

It is an aided Institution.

Subjects taught are Mechanical Drawing and Carpentry.

Fourth Vernacular Standard is the qualification for admission.

Session begins in June.

No fees are charged

Some «scholarship» are granted.

Students from other provinces are admitted

Accommodation for 50 boys is available

Cost of living comes to Rs. 100 per annum.

BURMA

Industrial Institutes in Burma.

Saunders Weaving Institute, Amarpura.

Government Lacquer School, Pagan.

Government Pottery School, Insein.

Evening Technical Classes, Rangoon

De La Salle Institute, Twante.

Government Technical Institute Insein.

C. I., C. P. & BERAR

Amraoti :—Berar Victoria Memorial Technical Institute.

Training in carpentry, blacksmithy and fitter's work is given in this institute. The period for training in carpentry is 2 years and is the same for blacksmithy course. There is also a 6 months' course for training in oil engine driving. Preference is given to sons of Artisans. No general qualification is required. Apprentices are taken between 16 and 19 years of age. Application for admission should be sent to Superintendent before 20th of May.

Jaipur —The school of Art.

The courses taught are —

Section A —

Fine Art.—Indian Painting, Design Master, Drawing and Architecture and Literary class.

Section B.—

Crafts—Engraving on Metal, Koft work, Tehnishaan and Zarnishaan (Damascene), Lacquer work, Carpentry, Wood Carving, Enamelling, Pottery, Goldsmithy, Sculpture, Polishing and Brass work.

At the time of admission applicants should select either section A (Fine Arts) or Section B (Crafts).

Generally the full courses in both the sections A. and B. will cover five years.

General education in English, Vernacular and Arithmetic, etc., is also given in addition to the special education in Fine Arts and Crafts.

The school year begins in July.

Monthly scholarships are awarded to deserving students.

Diplomas are awarded to students who have completed five years' course and have passed the Final Examination in Section A or Section B. Special Diplomas of Merit for Art teachers are awarded to those who persecuted their studies after five years' course for the purpose of specialising in any branch of Arts and Crafts.

Lashkar —The Central Poly—Technic Institute.

This Institute has been started by the Government of His Highness Maharaja Sindia.

The Institute consists of the following departments —

- (1) Expert Training Class.
 - (a) Mechanical Engineering.
 - (b) Textile Manufacturing.
 - (c) Industrial Chemistry.
- (2) Manual Training Class.
 1. Mechanical Department.
 - (a) Mechanics and Fitters.
 - (b) Cabinet makers.
 2. Textile Department.
 - (a) Practical Weavers.
 3. Industrial Chemistry Department.

- (a) Practical Dyers and Printers.
- (b) Electro platers.

4. Art Department.

- (a) Painters and Designers
- (b) Lacquer workers
- (c) Brass Art workers.
- (d) Wood carvers.
- (e) Stone carvers

Admissions—

(1) Expert Training Class.

1. The students must have either passed the Matriculation Examination or have studied up to that standard

2. Those who have completed their 16th year and are of sound constitution

3. Certificate of good conduct and of the last school attended must be forwarded

4. Application for admission must come by the 15th June.

(2) Manual Training Class.

1. Either the students should be the sons of the artisans or their parents desirous to put them in some trade

2. They should have completed their 15th year of age.

3. Certificate of good conduct (one signed by two citizens of this place or town will do)

Sessions and period of Training —

(1) Expert Training Class

1. The course of study is divided into 3 sessions of one year each.

2. Students have to attend 36 hours a week out of which nearly 24 will be for practical work and 12 for theory.

3. The session commences from the 1st of July and closes on the 30th of June.

(2) Manual Training Class

1. The course of study is divided into two sessions of one year each

2. The students will be given one hour in a day Arithmetic and drawing and 5 hours Practical Training.

3. In this class a student can be admitted during any part of the year

Scholarships —Expert Training Class. A number of scholarships of Rs 10 p. m. Manual Training Class. A number of scholarships of Rs. 6 p. m.

No fee of any sort (admission or tuition) will be charged.

After the completion of three years training in Theory and Practical work the student of Expert Training Class will be allowed to appear in the City and Guilds of London Technical Examination (the Boiler Act Examination for Mechanical Engineering students only)

Nagpur —Government School of Handicrafts.

The following is the order of precedence —(i) Artisans by caste. (ii) Artisans by calling. (iii) Non artisans.

Educational qualifications and age.

For artisans—IV vernacular and 14 to 19 years

For non artisans—VII vernacular and 16 to 19 years.

Depressed classes with the necessary qualifications are not precluded from admission.

Applications for admission should be sent to the Head Master, or through the Deputy Commissioner of the district, before the 15th of May, with a copy of the certificate of education.

There are two courses, one for carpenters and the other for blacksmiths. The period for either is two years.

Scholarships are granted at the rate of—

First year, Rs 7 per mensem.

Second year, Rs. 8 per mensem.

Hostel arrangement exists.

Other Industrial Institutes in C. I., C. P., and Berar.

St Francis De Sale's Technical School and Factory Workshop Nagpur.

Robertson Industrial School, Jubbulpore.

Swedish Mission Carpentry School Saugor.

Mennonite Mission Carpentry School, Dhamtari.

Government School of Handicraft, Akola.

Messrs. Shaw wallace and Co'sl Industrial School, Chandametta, District Chhindwara.

Technical Institute, Ujjain —Imparting Instructions to Artisan Class of Students in Weaving and Carpentry with a Course of 2 years in each

Textile Institute Chanderi, is meant for Training of boys in fine Fabric work and has a curriculum for 2 years.

Textile Institute, Narwar, has also a 2 years' course to pursue for giving instructions in making coarse fabrics

Textile Institute, Mandscur, with 2 year's Course to Woollen Cloth Making and Blanket Making

Technical Institute, Merkabad for Criminal Tribes only.

HYDERABAD (DECCAN)

Hyderabad (Deccan) --The Cottage Industries Institute.

Run by H. E. H. the Nizam's Government, Department of Industries

The Institute at present has 9 Sections which are as follows —

1. Weaving.
2. Dyeing and Calico Printing
3. Knitting and Hosiery Manufacture.
4. Durrie and Carpet Weaving
5. Woollen Spinning and Blanket Weaving.
6. Embroidery and Needle work.
7. Rattan and Basket Making.
8. Toy Making and Lacquer Work
9. Work shop, including Carpentry and Smithy.

Admission to all the courses of the Institute will take place in Thir (June) The courses are mainly intended for artisans preferably literate whose age should not ordinarily be less than sixteen The number of admissions in each section will be limited according to the accommodation and staff available in each section.

All applications for admission should reach the Superintendent, in prescribed form by the 15th of Thir every year. Non-artisan students will be required to deposit Rs. 10 as caution money

There will be a certain number of stipends allotted for each section, which will be awarded to artisans only.

A hostel is attached to the Institute to accommodate 14 students.

At present no fees are charged. The students are required to have their own drawing instruments and text-books, etc.

Artisans Course.

The course of instruction in this class extends to a period of one year and consists of both theory and practice in the technique of weaving. The instruction imparted in this course is in the vernacular.

Admission will be limited to 12 students in this class and preference will be given to candidates who are sons of hereditary weavers having good general knowledge to follow the courses. They should not be below 16 years of age.

A few stipends not exceeding 6 of the value of Rs 15 will be available for sons of hereditary weavers.

Dyeing and Printing Section

This section aims at improving the methods employed by the indigenous dyers and printers on modern and scientific lines. The course extends to one year. In this section, there is a great scope for practical work, since the dyeing and printing of yarn and cloth are undertaken for the public in order to enable the students to acquire sufficient practice.

Admission will be limited to 12 students in this class.

and preference will be given to candidates who are hereditary printers and dyers as well as to others who are connected with the dyeing industry or who can produce evidence of their being able to ultimately turn their training to start a dye house. Students must possess sufficient knowledge to enable them to follow their course and must not ordinarily be below 16 years of age.

A few stipends not exceeding 6 of the value of Rs. 15 will be available for the sons of hereditary dyers and printers.

Knitting Section

This course extends to one year. Students who are either connected with the trade or interested to take up as a home industry for their livelihood will be given preference. Admission is limited to 15 students. Students will be given a scholarship of Rs. 2 to 7 p. m according to their merits.

Durrie and Carpet Weaving.

The course extends for one year. Students who are either connected with the Industry or professional carpet weavers are admitted in this course.

Admission is limited to 10. Students will be given according to their merits Rs. 2 to 5 as stipend for undergoing the course.

Woollen Spinning and Blanket Weaving

In this section the course will extend to 2 years. One year for spinning and 1 year for weaving. The students who are either interested or connected with woollen industry with sufficient general knowledge will be preferred to this course. The number limited to this section is 12. A

scholarship of Rs. 5 to 10 will be given according to the merits.

Embroidery Section.

The course in this section will extend only for 1 year. Students who know elementary drawing will be given preference. In this section, the number is limited to 15 students and they will be given from Rs. 2 to Rs. 7 per mensem, according to the merits.

Rattan and Basket making.

In this section, the course will extend for 1 year. Students knowing elementary carpentry and drawing will be given preference.

Number of students will be limited to 10 only. The students will be paid a scholarship of, from Rs. 2 to 5 according to their merits.

Lacquer and Toy work.

The course in this section extends for 1 year. Students who have elementary knowledge in carpentry and drawing are preferred. Number limited for training is 15. A scholarship of Rs. 2 to Rs. 5 is given to each student undergoing training according to one's merit.

Other Industrial Schools in Hyderabad, Deccan.

Jacquard Weaving Institute, Paithan.

Osmania Central Technical Institute, Khairatabad.

Osmania School of Arts and Crafts, Nampally.

JAMMU & KASHMIR STATES

Srinagar (Kashmir) —Amar Singh Technical Institute.

All subjects of Jammu and Kashmir State and all residents in Kashmir are eligible for admission into the Institute provided that they are craftsmen or sons of craftsmen or have passed an examination in general education equal to the Second Middle, or satisfy the Principal that they have a real desire to learn and become proficient in some Craft or Applied Science, and are healthy and sound in body and mind.

Note.—For admission to the Sub overseers' Class the candidate must have passed at least the Matriculation Standard.

Applications for admission will be considered only if there are vacancies in the classes. All persons who have been admitted in the Institute will be on probation for not less than one month and if aptitude for the work is shown, at the end of that period they will be enrolled as full students. If in the opinion of the Principal a probationer shows no aptitude, and would be unlikely to profit by the training, he will be required to at once withdraw his application and to leave the Institute.

In the case of students admitted on account of their special aptitude for crafts but whose general education is below the desired standard a certain portion of their time will have to be given to general study in a special class provided to meet this requirement.

During the year vacations aggregating three months are given, dates to be notified by the Principal each year.

Ordinary scholarships varying in value to a maximum of Rs. 4 per mensem are awarded on the results of the annual examinations. In addition to these, four scholarships of the value of Rs. 15 and one of Rs. 12 per mensem, are awarded to Dogra Students of Jammu Province.

Scholarships of the value of Rs. 12 rising to Rs. 15 per mensem in the second year are awarded annually to candidates who obtain the highest pass marks in the Sub-overseers' Class entrance examination.

At present no fees are charged. The students are required to have their own drawing instruments and text books.

Departments.

1. Painting and Decorating.
2. Carpentry.
3. Masonry and Plastering.
4. Embroidery.
5. Sub overseer.
6. Smithing and Engineering (Mechanical).
7. Basket making
8. Pottery and Tile-making.
9. Modelling and Plaster Casting.
10. Wood-carving.
11. Model Workshop Practice.

In all Departments drawing and design form the basis of the training, and in the first year more time is allotted to these subjects than to craft work, while in subsequent

years the time allotted to craft work is increased and to drawing decreased.

Other Institutes in Kashmir State.

Sri Hari Singh Technical School, Anantnag.

Sri Partap Singh Technical School, Jammu.

Technical Schools at Gilgit, Baramula, Mirpur, Kishtwar and Bhadrawah.

Weaving and Dyeing School, Sambha.

MADRAS PRESIDENCY

Bellary —Government Industrial School.

Courses of Study.

Cabinet-making
Mechanics Course

5 years.

5 years

Instruction will be almost entirely practical, drawing and practical arithmetic included and will aim at turning out at the end of the course capable and intelligent carpenters and mechanics. Apprentices will be permitted to take only one course.

Admission into the school will be on six months probation and will be on the result of a written and oral examination in Mathematics, General knowledge and English. Admission will be limited to 16 in cabinet making and 12 in smithy. Admissions will be ordinarily made on the first working day in July each year. Application for admission must be made on the prescribed form which can be obtained on application to the Superintendent on or before 15th June. Candidates who are eligible for admission will be informed by post that they have been selected to sit for the entrance examination.

Qualification for Admission.

Age—Over fifteen years and under eighteen years.

Education—Minimum, a II Form pass or its equivalent, but preference will be given to candidates who have studied beyond the stage laid down as minimum qualification.

No fees are charged for the 5 years courses. Scholar

ships will be granted, limited to cases where it is absolutely necessary, subject to a maximum of 33 per cent. of the students on the rolls, and at the following rates —

First year	Rs. 5 per mensem
Second „	„ 5 „
Third ,	, 6 ,
Fourth ,	, 8 ,
Fifth .	„ 10 ,

Short Courses

Special short courses in oil engine training will be conducted for a limited number of students. Fees will be charged for the short course at the rate of Rs. 12 per month paid three months in advance

Calicut —Kerala Soap Institute.

The object of Government in establishing the Soap Institute at Calicut was to start an industry and not only a factory, to encourage the establishment of factories spread over the province in convenient localities and not merely a single monopolistic factory. It was intended that the Government factory, besides serving as a stimulating example to encourage small capitalists to establish similar factories should also provide facilities for the training of students in the process employed in soap manufacture. Accordingly Government have instituted a scheme for the training of apprentices. The course of training will be purely practical and adopted to the requirements of men with small capital and no great education.

Qualifications for Admission.—Candidates should be holders of completed Secondary School Leaving Certificates but in special cases application from persons with lower educational qualifications will be considered. Candidates who have already worked in a soap factory, or have some existing connexion with the manufacture of soap will be given preference.

The fees will be Rs. 100 per annum for students coming from the Madras Presidency, in the case of others Rs. 150 will be charged. (No student who after remaining for more than a fortnight in the Institute leave of his own accord or is expelled from it on disciplinary ground will be entitled to refund of any portion of the fees paid by him).

The course which will ordinarily extend over a period of one year will be divided into two terms the first of which will commence about the middle of June or as soon as possible thereafter and the second of the 2nd of January ending at the end of March.

The course of instruction will consist of lectures and practical and laboratory work as detailed below

Lectures.—Three hours a week—on raw materials, soap making, analysis of soaps and oils and setting up a small factory and general, e. g., simple costing methods maintaining simple accounts.

Laboratory.—Six hours a week—Practical study of the simple chemical operations, simple methods, testing oils, and fats, determination of fatty acids, etc.

Factory.—Twenty one hours a week—The methods and processes of manufacture will be fully demonstrated

and the apprentices will be expected to do manual work in connexion with all the factory operations e. g., weighment of raw materials mixing, boiling, crutching, cleansing, framing, slabing, cutting, stamping and packing.

Madras :—Government School of Technology.

The following are the chief courses of instruction provided at the school besides engineering courses.

(1) Practical Electric Wiring course of two years intended for practical wiremen. (Instruction in Vernacular).

(2) Mechanical Drawing courses in vernacular of two year each for—

(a) Wood-workers, such as cabinet-makers and carpenters.

(b) Metal-workers, such as fitters and turners.

(c) Bricklayers, masons and plumbers.

(3) Printing—

(a) Advanced course of four years.

(b) Elementary course of two years.

(4) Plumbing course of two years.

Students will be admitted only to one course and must attend all the classes included in that course.

Conditions of Admissions.—Admission is restricted to *bona fide* apprentices or workmen who are actually engaged in the trade they wish to learn. Intending applicants are

advised to join local firms, workshops or factories as apprentices or workmen and then seek admission to the school. Admissions to advanced printing course must have completed the S. S. L. C. To the Elementary Course, those who have passed Form IV are admitted

The applications should be endorsed by the employer under whom the applicant is working and reach the Principal before the 15th of June each year

The following are the scales of fees for fresh entrants to the school —

Courses	Fees per session.	
		Rs.
Advanced Printing	...	8
Elementary Printing	..	8
Plumbing	8
Electric Wiring	...	8
Building Drawing	...	5
Metal workers Drawing	5
Wood workers Drawing	5

7.

Madras (Washermanpet) — Government Textile Institute.

(c) to serve as a permanent museum for the display of improved appliances and machinery,

(d) to investigate all problems connected with the handloom weaving industry which await solution.

Two-day courses of training have been arranged for. The Supervisor's course extends over two years and the artisan course extends over one year for any of the artisan courses. The Supervisor's course is intended for those who desire to become teachers in weaving schools and managers of weaving factories. The medium of instruction is English. The artisan courses are purely practical and are intended for those desirous of becoming maistris in factories and demonstrators in schools and craftsmen. The medium of instruction is vernacular.

The session is divided into two terms. The first term begins in July and ends in December, and the second term begins with January and ends with May each year.

Admission into each course is limited to twelve students in each subject. All applications for admission must be made in the prescribed form and should reach the Principal Government Textile Institute, Washermanpet, on or before 15th June each year. In granting admission hereditary weavers or persons satisfying the Principal that they intend to take up weaving as their profession, will be given preference. Artisan course students are not permitted to take up more than one subject prescribed under the course. New students will not ordinarily be enrolled after the first week of the opening of the new session. Applicants must be 16 years of age or over, but boys of 13 and up wards, if they belong to the hereditary weaving caste or

are the sons of weavers and have completed their elementary course may be admitted for training as artisans. Admission to the supervisor's course will be restricted to those who have completed the S. S. L. C. course with Science as optional. A transfer certificate of the school last attended should be attached to the application form and candidates are requested to furnish the marks obtained by them at the S.S.L.C. examination. Candidates should be of good physique, free from any infectious disease and vaccinated.

No fees will be charged to students for training in the institute.

Thirty scholarships of the value of Rs 12 each are awarded annually, of which six scholarships are allotted for the study of the supervisor's course, first year, six for second year, and eighteen for the artisan course.

Madras —The Leather Trades Institute.

This institution is maintained by Government to instruct students in the theory and method of leather manufacture and in the scientific principles involved therein and to undertake research work in connection with the leather industry. The following subjects are taught —

- (1) Chemistry.
- (2) Leather chemistry.
- (3) Principles of leather manufacture.
- (4) Applied mathematics.
- (5) Book-keeping.
- (6) Use of tools and machinery.

(7) Elementary engineering involved in the layout of modern tanneries.

Candidates for admission should have passed at least the School Leaving Certificate Examination, but those with higher educational qualifications will be given preference. Candidates who have already worked in a leather works or are the sons of Tanners or other employed in the trade will have preference. Application for admission together with health certificate and recommendation from Headmaster of the School last attended, should be made before 15th June.

The fees will be Rs. 100 per annum in the case of students from the Madras Presidency and Coorg and Rs. 150 per annum in the case of students from Native States and from other provinces.

The general course is for 3 years, students who have a thorough knowledge of general science may at the discretion of the Principal, be permitted to join the second year class and thus only take a two years' course.

Students from other provinces are admitted if there are vacancies but preference is given to candidates of the Madras Presidency.

For further information application should be made to the Superintendent, Government Industrial Institute, Post Box No. 3, Madura.

Madras —P. T. L. C. N. Technical and Industrial Institute

Practical Classes

Complete Courses for Artisans

		Months	Rs.
1. Printing Foreman's Class	..	23	25
2. Proof Reading	...	4	10
3. Weaving, Knitting and Dyeing	...	36	50
4. Motor Mechanics and Driving	..	6	100
5. Motor Apprentices (for young boys)	...	12	50
6. Workshop Mechanics (Foreman)		30	100
7. Carpentry ..	...	30	50
8. Electric Wiring	...	6	50
9. Engine Driving, Overhauling and Fitting		9	25
10. Fitting	...	9	25
11. Turning ..	...	9	25
12. Moulding and Casting	..	9	25
13. Smithy	...	9	25
14. Rattan Works	...	12	25
15. Lock Making	...	6	25

Admissions will be made on the first working day in January, April July and October or any date as may depend on the vacancies and other special circumstances

Fees for the full term are payable in advance with the application except in approved cases where instalments are allowed subject to instalment and General Rule Penalties on arrears.

Qualifications required are good Face test and Physi-

cal strength and age. Men who are more than labourers but cannot read and write much, and those youths of well-to-do parents who were unfortunate in their school education are admitted to these courses, so that they qualify practically and rise in position or wages in due course according to their status in life.

Each of the above courses is complete with all the subjects for that course and the student consequently specializes practically and makes himself fit for a Foreman or a Mechanic's Job straight away in a small Workshop at least.

Industrial "Job Works."

1. Printing (English Tamil and Telugu) and Binding.
2. Weaving, Knitting and Dyeing.
3. Pattern Making and Casting (Foundry).
4. Sheet Metalling, Tinning, Soldering (Smithy).
5. Carpentry and Varnishing.
6. Motor Repairing and Driving.
7. Fitting, Turning, etc. (Workshops).
8. Drawing, Tracing and Sun-Printing.
9. Structural steel works
10. Electric connections and wiring, and repairs.
11. Engine works, erection, repairs, etc.
12. Well Boring.
13. Rattan Works.
14. Patent Medicines (Ayurvedic).
15. Lock Making.

These are in other words a "Job Department" organised

solely for the use of students' practical and departmental lessons specially useful to Industrial Classes.

Terms of orders are advance 25 to 50 per cent. of the estimated cost with the order and balance cash on delivery monthly credits, advance-concession, etc., only to approved customers, on payment of Rs. 20 retaining advance or similar conditions. Charges are low.

Madras —School of Arts and Crafts.

Its object is to give to students an adequate training in the Fine Arts (Painting and Modelling) and Artistic Crafts taught in the different departments—Cabinet making, Engraving, Jeweller's work, Silver or Metal work and Designing

Students are admitted within a week of the commencement of the school year in July provided seats are available in the respective classes. Such of them as are admitted will be put in the General Beginners Class for about six weeks to test their aptitude and then taken to the class for which they will be found fit and the rest sent out.

A pass in the eighth standard or III Form is ordinarily required for admission into the school.

Boys from the age of 12 years are admitted.

The school year is divided into two terms, the first term beginning early in July and extending up to Christmas in December and the second beginning early in January and closing at the end of April.

No fees are levied for instruction imparted in any branch of study except for pupils who might choose to come here from other presidencies and from students of Native States adjoining this Presidency to be trained in Fine Arts, for which a monthly fee of Rs. 3 is charged.

There are fifteen scholarships awarded at the discretion of the Principal which are apportioned as follows in proportion to the strength of each class,—

			Rs.	
6	...	...	5	per mensem.
4	...	...	7	do.
2	...		9	do.
2	...	..	12	do.
1	...	...	15	do.

The Commissioner of Labour awards scholarships to pupils of the depressed classes ranging from Rs. 3-8-0 to Rs. 7 per mensem without any fixed number to study cabinet-making, metal work, goldsmith and engraving. Besides the School scholarships enumerated above the Victoria Technical Institute awards a few scholarships tenable in the school. There are also generally students from neighbouring Indian States such as Mysore, Cochin and Hyderabad enjoying scholarships in the school. The Warden of the Sri Venkateswara Students' Hostel, Triplicane, awards three scholarships at Rs. 7 each per mensem.

Crafts Section.

Woodwork.

The object of this class is to give facilities to students

to learn cabinet-making, wood carving and to make other useful things of daily life that may be turned out of wood.

Besides the commercial side of it special care is taken to train the boys in such a manner so that they may be in a position to execute original and beautiful designs after completing their full course

Drawing and Design Class.

This class consists of three sections viz. (1) Lacquer Work, (2) Cotton Printing and (3) General Drawing and Design

Fine Arts Section.

Painting Class.

Admission to this class will be granted only to those who in the opinion of the Principal and Painting Instructor are able to profit by this study. A mere taste or desire for drawing will not be considered a sufficient reason for joining this class and no students who are beginners in learning to draw are admitted. Students who wish to become picture painters are admitted to this class if their natural abilities are such to warrant it. They have, however, as a rule first to spend some time at drawing in the Advanced Drawing Class until their ability can be judged or they may, by examples of their work, convince the Principal of their ability to begin from the life at once

Advanced Drawing Class.

Drawing from the round with light and shade in mono-

colour. Painting from still light. Composition. Drapery arrangement and drawing. Study of portraits from plaster castes.

Madura —Government Industrial Institute.

The Institute provides long-term courses apprenticeship in—

- (1) Carpentry and cabinet making.
- (2) General mechanic's work.
- (3) Short special course. in oil engine driving, and in motor-car driving and maintenance

Instructions will be almost entirely practical (drawing and practical arithmetic included) and will aim at fitting the students for work as artisans in wood and metal.

An apprentice will be allowed to take one course only—wood work or metal work. The wood working course will comprise instruction and practice in the construction of good sound furniture, preparation and erection of wood work in buildings, rattaning, carving, painting and upholstery.

The metal work course will include instruction and practice in blacksmithing, moulding, pattern making, fitting and turning, motor-car repair work and also management of running machinery. The syllabus of work, time-tables, etc., are given below.

General Information

There are two apprenticeship courses—

Wood work.

Metal work.

Apprentices will be permitted to take only one course

Apprentices will be on probation for six months, and if, on an examination held at the end of this period found satisfactory will be permitted to enter on the full period of training which will extend to five years including the period of probation

If found unsatisfactory, their probation will be terminated.

Admissions.

Application for admission must be made on the prescribed form which can be obtained on application to the Superintendent. The form should reach the Superintendent on or before 30th June and the applicants should appear in person to ascertain if their applications are favourably considered.

(a) Admissions will ordinarily be made on the first working day in July each year.

(b) Admissions will be limited to 24 in any one year, not more than 16 being admitted to the metal working section.

(c) The sanctioned strength is 100 apprentices and the Superintendent may make extra admission to keep the numbers at that figure.

(d) Only a few paying apprentices may be entertained over and above this number. They will have to abide by the rules prescribed.

Candidate for admission must be over fifteen years and under eighteen years

Education.

A candidate should have passed at least the first form. A school-leaving or transfer certificate from the school last attended must be attached to the form of application for admission.

Applicants should be strong and healthy and fit for manual labour, free from disease or deformity, vaccinated, and willing to undergo medical examination.

No fees will be charged for tuition, but a deposit of Rs. 25 must be made by each apprentice before he is allowed to start work.

In addition to the sanctioned number of paid apprentices, a limited number of paying apprentices nominated and supported by local boards, etc., or those who are prepared to pay for their own training will be admitted. For the present, the number of such paying apprentices will be limited to three per annum in the wood work section and six per annum in the metal work section.

Hostel Fees.

All inmates of the hostel will pay hostel fees. No charge will be made for room rent or supervision. The hostel fees will be entirely utilized to cover the cost of food-stuffs, wood and cooking.

Short Courses.

Special short courses in oil engine driving will be conducted for a limited number of students.

Fees will be charged for these short courses at the rate of Rs. 12 per month paid three months in advance.

Trichur (Cochin State) —Government School.*Arts Sections.*

The object of this Section is to train students to take Drawing as a profession and study and revive the indigenous Arts of Indian Decoration and Painting

The Section coaches up students for the Lower and Higher grades in Drawing, Painting Design and Geometry, up to the Diploma in Drawing of the Madras Government Technical Examinations. In addition, there is a Preliminary grade where beginner students receive initial instructions.

The school session is divided into two terms. The first term extends from Makaram to Medam and the second term from 17th Edavam to Dhanu. The first term consists of 3 instalments and the second term of 5 instalments.

Trichur —Government Trades School

1. Carpentry lacquer work and carving including Thatchu Sastram—

	Lower—	4 years	Higher—6 years.
2. Blacksmithy		do	do
3. Metal works including bronze and brass casting		do	do
4. Weaving		do	do
5. Engraving		do	do
6. Electro plating	2 year.		
7. Rattan works	do		
8. Grass mat making	do		

Admission.

Admission of fresh students begins in Edavam, *i. e.*, when all the literary schools reopen after midsummer vacation. Pupils seeking admission into any one of the industrial classes should not be below 12 years of age and should have passed or at least completed the course of the 4th standard.

The minimum age for admission in motor mechanic and electrical courses is however fixed at 16. Preference will be given to those having literary qualifications, especially to those who have taken Science as optional for the School Final.

Pupils seeking admission in the motor mechanic section are required to pay Rs. 15 in advance as caution money, which will be refunded at the end of their course after making deductions, if any due to Government. They are further required to pay a monthly fee of Rs. 3. No admission fee shall be levied from them.

In the home industries classes, scholarships and stipends are given to students at the following rates —

1st year	12 annas a month
2nd year	1 Re. do
3rd year	3 Rs. do
4th year	4 Rs. do
5th year	5 Rs. do
6th year	6 Rs. do

Minor Industries.—Book binding and horn and ivory carving are taught to such of the students of the school as

desire to learn them. Book binding is taught only as a part of weaving during class hours by the Weaving Instructor. Carving is taught in the evening after school hours for an hour, i. e., 5 to 6 p. m. provided there are pupils for the same.

Trivandrum — School of Arts.

This institution imparts instruction in Drawing, Ivory Carving, Pottery work, Smithy and Lacquer work. There are thirty stipendiaries undergoing instruction in Drawing and also thirty one of the four subjects of handicrafts mentioned above. Admissions are made generally once in a year as vacancies arise. The course extends over a period of four years, i. e. two years for the first term and another two years for the second term. The stipends at the rate of Rs. 5 per mensem is paid to each apprentice for the first term and Rs. 7 per mensem for the second term. The minimum qualification for admission as a stipendiary is either the passing of the Vernacular seventh class or the third form of an English High School. Generally pupils who are below 12 years of age are not admitted. They are coached up for the Madras Government Technical Examinations in Drawing.

The school year commences from the first working day of the month of Thai of every year and there will be a vacation for two months from the date on which the Madras Government Technical Examinations commence in November every year. Pupils who wish to study any one of the handicrafts such as carving, smithery, pottery and lacquer

work are also admitted and given instruction in the particular subjects on payment of the fee of Re. one per mensem for each subject. There is no boarding arrangement in this institution.

Other Industrial Institutes in Madras.

Madras City.

The Anjuman Industrial School, Madras, is a Muhamadan institution conducted as a half time industrial school, the pupils spending half the school day in literary study and half on practical work. The subjects taught are cabinet-making and carpet-weaving. There are about 80 on the rolls, and the institution is supported by public subscription and Government grant in aid.

The Church of Scotland Mission Industrial School, Kilpauk, Madras, provides instructions in embroidery and general needlework, drawing and designing being taught as an integral part of both courses. The school is open to all casts and creeds and is supported by the Church of Scotland Mission aided by Government grant in aid. There are about 75 on the rolls and the school serves also as a training centre for pupil teachers who wish to take posts in similar schools elsewhere.

The Orr Assisted Industrial School, Madras, consists of a group of classes conducted by Messrs. P. Orr & Sons, scientific instrument makers, for the benefit of their boy-workers and young workmen. Reading, writing and arithmetic are taught in Tamil by a Tamil schoolmaster, and practical

instruction in the use of machinery and in bench work is given by the works staff. The classes are maintained by the firm assisted by a Government grant in aid calculated to cover about half the recurring cost.

The Sri Ram Moter School Madras provides instruction in motor car engineering. It is supported by fees and is conducted by the Principal as a business proposition. It received no grant from Government but is recognised by the Department of Industries and the certificates it issues are, subject to certain conditions, countersigned by the Inspector of Industrial Schools.

The Ramakrishna Mission Industrial School Mylapore is an institution providing instruction in wood working, metal working and rattan work. It is conducted in association with a students' home and high school. There are at present about 25 on the rolls, and school is supported by public subscriptions and a grant in aid from Government.

The Seta Sadan Industrial School Chetput, provides instruction in rattan work, embroidery, needle work and mat making for about 50 women and girls. The is supported by public subscriptions, sale of finished work and a grant in aid from Government.

The Penitentiary School of Cabinet making is a school in the Penitentiary providing a training in cabinet making in a five years' course for about 50 selected convicts who may afterwards be distributed in other jails to serve as instructors or workmen in the cabinet making shops attached thereto.

St. Bridget's Industrial School for Girls, Nungambakam, is managed by the Sisters of the Roman Catholic

Church and provides instruction in embroidery, dressmaking and general needle work. The school is maintained by mission funds aided by a small Government grant.

Ganjam District.

The Raja's Industrial School at Parlakimedi, provides instruction in cabinet-making for about 30 boys of the town. The school is maintained from the funds of Parlakimedi estate aided by a Government grant.

Vizagapatam District

The St Aloysius Works Classes, Vizagapatam provide a four to five years' course in motor engineering and general mechanics for about twenty apprentices. The works belong to the R. C. Mission (Messrs. Addison and Co., Madras—Managing Agents), Government aid is given in the form of capitation grant.

The St Aloysius Works Supplementary Industrial classes Vizagapatam are a set of evening continuation classes in mechanical engineering subjects for the benefit of the young workmen and apprentices employed in local mechanical and motor engineering shops. The classes have been temporarily closed owing to major charges in management but it is hoped to reorganize them in the near future and that they will develop into a large school on the lines of the Madras Government School of Technology.

Godavari District.

The Canadian Baptist Mission Industrial School, Cocanada, provides instruction in cabinet making and general

wood working for about twenty boys and is supported by mission funds and grant in aid from Government.

The Alexander Girls' Industrial School, Ellore, provides instruction in tape weaving, mat making tailoring, knitting and poultry raising. It has been recently recognized and is a small school but is expected to develop.

Kistna District.

The St. Joseph's Industrial School at Gunadala near Bezwada is a school of cabinet making maintained by the Brothers of St. Gabriel whose headquarters is at Tindivanam. It is developing into a large institution supported by mission funds and aided by Government grant.

The Sree Krishna Parissramalayam Industrial School at Kavutharam a village on the Bezwada Masulipatam Railway line, is a small Hindu school of cabinet making managed by a young man who was trained at the Cabinet making Teachers Training School at Tindivanam. It is at present a small institution but may develop with local assistance. It is maintained by local public subscription and a Government grant in aid.

The Andhra Jatheeya Kalasala, Masulipatam, is a Hindu managed institution providing instruction in the mechanical engineering trades and carpet weaving. It is maintained from endowments, subscription and Government grant in aid.

Guntur District.

The American Baptist Mission Girls' Industrial School, Ongole, is endeavouring to establish a local industry

in drawn thread work, crochet, lace, embroidery work and Armenian lace work. There are generally about 20 girls in full-time attendance and the school is supported by the mission funds and a grant in aid from Government.

The American Mission Workshop at Guntur, whilst not recognized as a school, provides a practical training in cabinet making for about a dozen apprentices and the same mission has a farm school of agriculture near Guntur on land granted by Government specially for the purpose.

The St. Joseph's Orphanage Girls Industrial School, Guntur, provides instruction in dress making and needle work generally for about 24 pupils. It was opened and recognized from 1st April 1927 and is developing rapidly into a very fine school.

Kurnool District.

The Coles Memorial Industrial School, Kurnool—The industrial subjects taught are weaving which is the principal subject and cabinet making which is not yet developed to any great extent. Instruction is also provided in literary subjects and in marked gardening. The school provides a very extensive course in handloom weaving and allied processes. There are over 50 on the rolls and the school is growing fast. It is supported by mission funds, the sale of finished work, and a grant from Government.

Nellore District.

O.E.L. Mission Lace School at Gudur.—The school serves as a centre for a small local cottage industry in lace-making in the neighbourhood. A little elementary education

in reading, writing and arithmetic in the vernacular is provided for such of the girls in attendance whose education falls short of the third standard and who desire such instruction. There are 26 girls in attendance. They attend full time from 8 a. m. to 5-30 p. m. with an interval from 12 to 2. No fees are charged and the pupils are paid for the work turned out. There is hostel accommodation and the school is maintained by a small Government grant in aid, receipt from sales and a grant from mission funds.

Bellary District.

The St Joseph's Girls Industrial School Bellary, is managed by the Sisters of the Roman Catholic Church and provides instruction in lace making, embroidery, hosiery work, dress making and needle work generally. The school is attended by Anglo Indian and Indian girls and the instruction provided is very popular locally. The school is supported from mission funds aided by a grant from Government.

Chittoor District.

The American Arcot Mission Women's Industrial School Palmaner—This school provides a training in lace making, embroidery and needle work generally. It is supported by mission funds aided by Government grant in aid, a pupil teachers training course has recently been added and is expected to prove very successful. Sericulture and poultry rearing are taught as part time cottage industries.

North Arcot District.

The American Arcot Mission Industrial School Katpadi, is a large school of cabinet making, blacksmithy, and

motor car repair work and driving. There are about 110 students on the roll, the course of instruction is from four to five years and the training provided is of a very high order indeed. The school specializes in high-class furniture and has built up a considerable reputation for good quality workmanship. It is supported by the sale of finished work mission funds, and a grant in aid from Government.

The Ajuman-i-Isha a Thul Hassanath Industrial School, Vellore, is a half time school, the younger boys spending half their school day at literary study and half at bench work and only a few older boys working at the bench full time. There are about 50 boys in the school receiving instruction in carpentry, cabinet making and general wood-working. The school is supported by public subscription and a Government grant in aid.

The Anjuman in Muiyadul Islam Muhammadan Orphanage, Mel visharam is an industrial school of cabinet making conducted like the school at Vellore on half time lines but the children in attendance are inmates of the school orphanage and live on the premises. This school is also supported by local public subscription, and Government grant in aid.

The Anjuman Industrial School, Tiruppattur, is a half time school very much on the lines of the older institution at Vellore. It is, at present, very small but is expected to develop.

Don Bosco Industrial School, Vellore.—This is a small institution managed by the Roman Catholic Mission and recognized by the Department in 1931. It provides instruction in cabinet making and carpentry. It has now a

strength of about 20 pupils most of them being drawn from the depressed classes in the district.

Chingleput District.

The Wesleyan Mission Industrial School Ikkadu, near Tiruvallur, provides instruction in lace work, embroidery, both hand and machine work, and weaving. The students are principally woman and girls but a few men and boys are trained in the weaving section. There are about 100 students in attendance drawn from all classes and creeds. The school is supported by mission funds, receipts from sale of finished work, and Government grant in aid.

The American Advent Mission Industrial School, Saidapet provides instruction in cabinet making. There are about 20 students in attendance and the school is maintained from mission funds aided by a grant from Government.

The United Free Church of Scotland Mission Lace School, Chingle put, provides instruction in pillow lace-work for about 50 girls of the district. There are small groups of workers in surrounding villages selling their works through the school. The institution is supported by mission funds, receipts from sale of finished work and a Government grant in aid.

The United Free Church of Scotland Mission Agricultural School at Melrosapuram, eight miles north of Chingleput provides instruction in agriculture and various industries supplementary or allied thereto. Before admission, a boy is expected to have completed the primary school course and the curriculum includes provision for the continuance of the general education of the pupils up to eighth standard, i. e.,

middle school standard. Instruction is in the vernacular (Tamil) and there is hostel accommodation for fifty boarders. It is claimed that boys taking the course in this school are quite able to go on to further secondary school training if they wish and if family circumstances permit. On the other hand, it is claimed that when a boy leaves this school after completing the course he has had a reasonably good general education coupled with a very practical training in agriculture generally, and particularly in details such as selection of seeds, rotation of crops, study of various insects and birds helpful or otherwise to the agriculturist and in one or more simple village industries allied to agriculture *i. e.*, fibre extraction, rope-making, mat making, weaving, etc.

The Reformatory and Senior Certified School, Chingleput, provides industrial training for its inmates in carpentry, blacksmithy, sheet metal-working, aluminium casting, tailoring and mason's work. The boys in attendance attend the literary school half-time and devote about half the day to industrial work. The school is maintained by Government, the metal and wood working classes being inspected by the Inspector of Industrial Schools and recognized for the issue of industrial school-leaving certificate under article 17 of the Code of Regulations for Industrial Schools.

The St. Antony's Industrial School, St. Thomas' Mount, provides a training in embroidery and general needle work. It is maintained by the R. C. Church aided by a small Government grant.

South Arcot District.

Industrial education in South Arcot district is catered

for by four schools situated at Tindivanam Panruti, Tirukkoyilur and Cuddalore

The St. Joseph's Industrial School at Tindivanam provides training in cabinet making and blacksmithy for about 75 boys

A training section for training teachers of cabinet-making has been attached to this school and turns out a number of trained teachers of cabinet making and mechanical drawing annually. The school which is managed by the French Brothers of St. Gabriel is maintained by a grant from mission funds the sale of finished work, and a grant in aid from Government. A prospectus is published and copies can be had from the Manager.

The Danish Mission Industrial School, Panruti, provides instruction in wood working and weaving for about 100 boys. The school maintains a hostel and is supported by mission funds, sales receipts and a Government grant in aid.

The Danish Mission Industrial School Tirukkoyilur, provides instruction in lace work and embroidery for about 45 women and girls. It was until recently the centre of a large cottage industry in lace making but the difficulty of disposing of the lace manufactured has in recent years considerably restricted the school's activities. Embroidery has been taken up as an alternative to lace-work and the school is now rapidly building up a local industry in the particular type of embroidery it specializes in. It is supported from mission funds, sales receipts, and a Government grant in aid.

Trichinopoly District

Industrial education is catered for by five schools situated at Trichinopoly, Puthoor, Karur and Dindigul.

The St Joseph's Industrial School Trichinopoly, provides instruction in cabinet making carpentry, pattern-making, moulding fitting turning and blacksmithy. There are about 40 in attendance, but an increase is expected in the near future. The school is maintained by mission funds sales receipts, and a Government grant in aid.

The Holy Cross Convent Industrial School, Trichinopoly, provides instruction in embroidery and needle work generally, for about 70 women and girls. The work finds a ready sale and the students are paid for the work they do. The school is maintained from mission funds sales receipts, and a Government grant in aid.

The Wesleyan Mission Boys Industrial School, Karur provides instruction in cabinet making, blacksmithy, rattan work, and weaving. The school has good hostel accommodation. It is supported by mission funds, sales receipts, and a Government grant in aid.

The Wesleyan Mission Girls Lace Industrial School, Karur, provides instruction in pillow lace-making for about 16 to 20 women and girls. It is supported by mission funds, sales receipts, and a Government grant in aid.

Tanjore District.

The St. Francis Xavier's Industrial School, Tanjore, provides instruction in wood working and weaving for about 100 boys. New buildings to house this school including a new printing department were completed in 1928-29. The

school is maintained by mission funds sales receipts, and a Government grant in aid.

The Borstal School, Tanjore provides industrial training in cabinet making, weaving, gardening and one or two other minor industries. The cabinet making and weaving sections have been recognized as an industrial school and are inspected by the officer of the Department of Industries whilst the certificates of boys who satisfactorily complete their courses of instruction are countersigned by the Inspector of Industrial Schools under article 17 of the Code of Regulations for Industrial Schools. The school is maintained by Government

The St. Mary's Industrial School, Kumbakonam, provides instruction in cabinet making blacksmithy, moulding, fitting, turning and weaving for about 60 boys. The school has recently been given a building grant for the improvement of the accommodation. A hostel is maintained and non Christian are freely admitted as day boys. The school is supported by mission funds, sales receipts, and a Government grant in aid.

The Leipzig Mission Women's Industrial School, Mayavaram, provides instruction in weaving, lace-making, and mat-making for about 55 women and girls. The school is supported by mission funds, sales receipts, and a Government grant in aid.

Municipal Industrial School, Kumbakonam—This institution is managed by the Municipal Council, Kumbakonam. It was started in the year 1929 with a view to provide instruction in jacquard weaving for weavers. Cabinet making

has recently been added to the curriculum of studies. The school is a small one and receives a maintenance grant annually from Government.

Madura District.

In Madura district there are recognized and aided industrial schools at Madura and Pasumalai. There is also a Government Industrial Institute at Madura, whilst the Special Kallar Officer has organized several schools and depots for imparting industrial instruction to youthful and adult members of the Kallar criminal tribe.

The Pasumalai Trade School, conducted by the American Mission at Pasumalai, provides instruction in carpentry, cabinet making, blacksmithy, oil engine driving, printing, and book-binding. The school is maintained from mission funds, sales receipts, and Government grant in aid.

The St. Joseph's Convent Industrial School, Madura, provides instruction in embroidery for about 100 women and girls. The girls are given a small allowance during the early part of their training and are paid for the work done at soon as they are capable of being put on to saleable work. The school is maintained from mission funds, sales receipts, and Government grant in aid.

The Swedish Mission Industrial School, at Dindigul provides instruction in cabinet making and blacksmithy. It is supported by Swedish Mission funds and a Government grant in aid.

Coimbatore District.

The St. Joseph's Industrial School, Coimbatore, provides training in cabinet-making, carpentry, blacksmithy, fit-

ting and turning, for about 130 boys. The school has a reputation for good workmanship and the youths who have been through the course have little difficulty in securing suitable posts. The school is maintained from mission funds, sales receipts, including the sale of sawn timber from a saw mill worked on a commercial basis and a Government grant in aid.

The London Mission Boys Weaving School at Erode provides instruction in handloom weaving and preparatory processes for over 50 boys. A building scheme has just been completed and new and up to date apparatus is being installed so that considerable development may be expected in the near future. The school is supported by London Mission funds, and a Government grant in aid.

The London Mission Girls Supplementary Industrial Classes, Erode provide training in fancy mat and basket-making plain mat weaving and cotton weaving for about 50 girls. The school is conducted on part time lines, the girls attending the literary school for about half the school day and the industrial school for a similar period. The school is maintained from London Mission funds assisted by a Government grant in aid.

The P. S. G. & Sons Charities Industrial School, at Peelamedu near Coimbatore, a Hindu managed institution, is a large school of mechanical engineering trades. It is hoped to add other trades as the school develops. It is maintained by endowments and a Government grant in aid.

The Immaculate Conception Convent Girls Industrial School, Coimbatore, provides instruction in embroidery and needlework.

Tinnevely District.

The School for the Blind at Palamcottah, provides industrial training in weaving and rattan work, chair caning, etc., for the boys and youths and weaving, basket work, and coarse knitting for the women and girls. There are about 65 in attendance at the industrial classes. The school is maintained by public subscription, mission funds, grants from local bodies and a grant in aid from Government.

The S. P. G. Industrial School, Nazareth, provides training in cabinet making, and blacksmithy and motor car driving and repairs. There are about 100 students in training and a hostel is provided. The School is maintained from mission funds sales receipts and a Government grant in aid.

The St. Joseph's Industrial School at Adaikalapuram near Tiruchendur provides instruction in carpentry and weaving. There are about 35 boys in attendance. The school is maintained from mission funds and a grant in aid from Government.

The Holy Cross Convent Industrial School, Tuticorin, provides instruction in lace work, embroidery, drawn thread-work and dress making and needlework generally. There are about 60 women and girls in attendance. They are paid for the work they do. The school is maintained by mission funds and a Government grant in aid.

The Hindu Girls' Industrial School, Kudangulam, provides instruction in pillow lace making for about 30 Hindu girls and women. The school is managed by a local gentleman and his wife and the work is the same as the work

in the Christian Mission school (now closed) from which the patterns have nearly all been copied. The school is supported by a small profit on sales, and a Government grant in aid, but the manager and his wife devote considerable time to the supervision of the work and the sale of finished stock.

The R C Lace School at Vedakangulam provides instruction in pillow lace making for about 90 women and girls but is now finding difficulty in disposing of its finished work. The lace made here is slightly heavier than that made at Idayangudi and Kufangulam and is mostly of cotton thread. The school is supported by mission funds, and a Government grant in aid. Sericulture has been added as a supplementary industry and is proving very successful.

The St Joseph's Industrial School Futicrin, provides a training in cabinet making and is developing very fast.

Malabar District.

The only recognized industrial schools in Malabar are the Commonwealth Embroidery Industrial School at Calicut and the Y. M. C. A. Industrial School Areakode. There is also a small Convent Industrial School at British Anjengo in the same Collectorate and a Government Industrial School at Calicut.

The Commonwealth Embroidery Industrial School, Calicut, provides instruction in fine embroidery for about 70 women and girls. The school is financed by the Commonwealth Trust and receives a small grant in aid from Government.

The Y. M. C. A. Industrial School, Areakode, was opened originally as a local social economic uplift centre

for the benefit of the Mappillas of the rebel area. The activities of the centre are now largely concentrated on providing instruction in weaving, rattan work and sericulture for such of the local Mappilla youths as care to take advantage of the training. The school is supported by the Y. M. C. A. aided by a Government grant in aid.

The Sacred Heart Convent Industrial School, Anjengo, provides instruction in embroidery, lace-work, dress making, and needlework generally for about 25 girls of the locality. The school is supported by mission funds and a Government grant in aid.

A Government Industrial School was opened in Calicut in June 1929. It provides instruction in mechanical engineering trades cabinet making and motor car driving and mechanism. It is expected to develop into a large institution.

South Kanara District.

Commonwealth Trust Engineering Works, Mangalore for about a dozen of their young apprentices. The lads in attendance receive instruction in mechanical drawing and the theory of their trades. The classes are held in the mornings in working hours and the instruction is given by the drawing office staff who receive a small allowance for the extra work. A Government grant of about Rs. 400 is given annually and is calculated to cover approximately half the net cost.

In addition to the Commonwealth Trust classes there are workshops owned and managed by the R. C. Mission and conducted as unrecognized industrial schools.

The St. Joseph's Male Asylum Industries at Kanka-

nady, provide instruction in the wood-working and metal-working trades and also in modelling and shoe making.

The Female Asylum Industries provide instruction in lace and embroidery and in hosiery work but as these two institutions are not recognized or aided, statistics are not available regarding them.

Government Trades School, was opened at Mangalore in June 1929. It provides instruction in wood working and metal working trades for the benefit of apprentices and learners in local workshops and also in motor car driving and mechanism for intending motor drivers.

The Nilgiris.

The Nazareth Convent Girl's Industrial School, Ootacamund, provides instruction in embroidery and needle work. It was recently recognized and is expected to develop.

It is proposed to open a *St Joseph's Boys' Industrial School* at Ootacamund in the near future as a branch of the school of the same name at Coimbatore.

The St Mary Convent Industrial School, Kotagiri, provides instruction in embroidery and needle work generally. It was recently recognized and is expected to develop considerably in size and usefulness. It is maintained by the R. C. Church aided by a small grant from Government.

MYSORE STATE

Bangalore (Hebel) —Indian Institute of Science.

Department of General and Organic Chemistry.

As the departments are intended primarily for research work in the different branches of chemistry, students who wish to work in the laboratories will be required to show that they possess a sound knowledge of the science before they are admitted. New students are ordinarily required to undergo a course of advanced practical work and to attend certain lectures before they are permitted to begin research.

Special arrangements can generally be made for members of the teaching staffs of Indian colleges who may wish to conduct research in organic, inorganic or physical chemistry while on leave.

The staff of the departments and the students meet once a week to discuss important papers in current chemical journals or research work which is being carried out in the laboratories. Lectures on special subjects may be arranged during the course of the session.

The laboratories are supplied with water at high pressure, gas, steam and a vacuum system. Direct and alternating current mains at various voltages are installed throughout the building. Apparatus and chemicals are supplied free of charge, but students are required to make good a certain proportion of any loss which they may occasion by damage or breakage. There is a very comprehensive collection of high class apparatus for physico chemical work and precise

measurements. large stills and extraction plant are available for dealing with natural products in the preliminary stages of investigation. There is a well equipped workshop in which students are permitted to work under supervision. The machine-room contains a liquid air plant, motor generator and other machinery. Research on a semi-commercial scale is made possible by various types of stills, furnaces, extractors, autoclaves, grinding and crushing machinery and hydrogenating plant. A miniature Wilfley table and a flotation testing machine for ores are also available.

Facilities will be given to students who wish to study the analysis of minerals, oils, fats etc., to those who wish to make an examination of plant extracts, essential oils or fixed oils, and generally to those who wish to take up the study of branches of technical chemistry allied to either general or organic chemistry.

There is a special room for poisonous materials and one equipped for the preparation of costly research chemicals and other organic compounds in quantity larger than is usual in the laboratories.

Department of Biochemistry

The department being intended primarily for research, students who wish to work in the laboratories will be required to show that they have received a sound training in general chemistry including organic chemistry.

Courses of advanced lectures in general biochemistry and practical classes will be held from time to time and students may also be required to attend similar instructional courses in other departments of the Institute.

The department is well equipped for general biochemical work. The laboratories are supplied with gas and water at high pressure and electric power is freely available. The equipment includes various types of sterilisers, extraction apparatus, stills, centrifuges and fermentation plant for large scale experiments. New laboratories have recently been provided with apparatus for the various physical measurements required in biochemistry and a micro analysis laboratory is also available.

Full facilities can be given to students wishing to take up work in bacteriological and enzyme chemistry, the chemistry of water and sewage plant chemistry, certain aspects of agricultural chemistry, fermentation problems, animal nutrition etc.

Apparatus and chemicals are provided free. A limited number of scholarships are also available but these are not awarded on entrance.

A colloquium on some subject of biochemical importance, in which students and staff participate is usually held each week.

Facilities can generally be provided for members of the teaching staffs of the Indian colleges who may wish to conduct research in biochemistry while on leave.

The charges in the messes vary from about Rs. 28 to Rs. 35 per mensem.

These amounts do not include the fee of Rs. 10 to be paid by the resident students.

Applications for admission to the Institute shall, in the

first instance be made in writing to the Director and must reach him before 31st May.

Every application for admission shall be made on a prescribed form properly filled in and signed by the applicant

Every student shall be admitted to the Institute on probation only. Should his conduct or work not prove satisfactory, or should the Senate be of the opinion that he is incapable of taking advantage of the facilities for study and research provided in the institute, he may be required to leave at any time.

Students shall be required to produce certificate proving that they have undergone such training and attained to such proficiency as may in the opinion of the Senate, be required for admission to the particular department to which they wish to become attached. The Senate may prescribe any such additional test as they may deem necessary to prove a candidate's suitability for admission.

Students shall be liable to make good any loss which they may occasion to the Institute by damaging apparatus, or other property, or wasting material. *Each student will be required on joining to deposit the sum of one hundred and fifty rupees to meet such liabilities or any fines* and may be required to make up the deposit to its original amount in the event of any portion of it being applied for these purposes or any of them. Students joining the Institute for a period not exceeding four months will be required to deposit the sum of fifty rupees only.

Before a students is permitted to enter upon a course of specialised study or research he may be required to follow

such course of instruction as may be considered necessary

Certificates may be granted by the Council on the recommendation of the Senate to students who have satisfactorily completed a course of study approved by the Senate.

Associateships — Associateship may be awarded by the Council on the recommendation of the Senate, associated with the opinion of a referee to students who have devoted five terms entirely to research work, and who have presented an account approved by the Senate of such work. In addition, the Associateship may be awarded (1) to students who produce satisfactory evidence of having been engaged in research work before joining the Institute and who devote three complete terms to research work at the Institute, and present an approved account of such work, (2) to students who, having spent three complete terms in research work at the Institute, present after the lapse of not less than two years, an approved account of their researches during both periods.

Fellowships—Fellowships may be awarded with the previous approval of the Visitor at the request of the Council based on the recommendation of the Senate and the opinion of two referees to Associates who having spent at least five years in actual practice, can produce evidence of having done original and valuable research work or of having otherwise contributed to the advancement of scientific or industrial knowledge.

The Honorary Fellowship of the Institute may, on the recommendation of the Council, be conferred by the Visitor on persons who have attended scientific or industrial eminence or who have rendered signal service to the Institute

Students shall be required to reside in the Hostel pro-

vided at the Institute. The Senate may grant permission to a student to reside elsewhere provided that such permission may be withdrawn at any time

The Senate shall have power to grant scholarships to students of proved ability who may in the opinion of the Senate, require assistance to continue their work at the Institute.

For Department of Electrical Technology consult Mohan's 'Guide to Indian Engineering Studies'

Mysore — Sri Chamarajendra Technical Institute.

The subjects taught in the institute are as follows —

Five year Courses

Art—Drawing —Freehand, Geometrical, Perspective, Model, Common Objects and Nature.

Painting —In Oil, Water colour, Tempera, etc., from casts of ornaments antique figures, flowers, fruits, still life, drapery and the living model

Modelling —In Clay, Wax and Plaster, of ornaments, antiques and life figures

Designing —For Furniture, Inlay, Carving and other artistic industries

Industrial Arts —Engraving and Etching; Metal Work, Rattan Work, Fitters' Work, Blacksmithy.

Six year Course.

Carpentry and Cabinet Making.

The terms begin on 1st July.

Applications for admission should be made in the pres-

scribed form, which may be obtained at the office of the Institute between the 15th May and 1st July and all applicants and their parents or guardians are advised to consult the Superintendent in person. In special cases, the time for admission will be extended up to 15th August but students joining the institute late in this way will naturally suffer for the time lost. Preference will be given to students who have completed the Lower Secondary course.

The only case in which any fee will be charged is that of part time students in the Art section, who pay one rupee per mensem in advance. In other cases in order to encourage students of the right class to undergo training, stipends will be paid at rates varying with the stage of training, the class of work done, and other conditions.

Other Industrial Institutions in Mysore State.

Government Industrial Schools at Hassan Chikmagalur, Shimoga Chitaldrug Channapatna, Sagur and Doddballapur

Government Weaving School at Gudibanda

Weslayan Mission Industrial School Tumkur and Kolar
(Motor mechanism Rattan work Carpentry Cabinet making, Smithy)

Weaving School Hale—Varasipuri

Industrial School Melkote

Weaving Schools at Sindhiyanna and Sosale.

S. L. N. Industrial School, Bangalore.

Home Industries Classes at Mysore, Malleswaram (Bangalore) and Chikmagalur.

PUNJAB

Ambala City —The Government Metal Works, Institute.

The object of the Institute is to provide a thorough and all round practical training in Metal Work by modern methods including the use of power machines and to give to the students a complete knowledge of Mechanical Drawing. The practical course is based on Blacksmithy, Foundry Work, Turning, and Fitting and Finishing, as applied to the manufacture of locks and general metal fittings, tools, balances, surgical instruments, cutlery, and all kinds of fine work in iron and steel.

The Institute provides for two courses of instructions —

- 1 Foundry Workers Course, including Pattern Making, Moulding and Casting in brass and iron and
- 2 Fitting, Turning and Machining Course.

Candidates for admission to the above courses must have passed the Industrial Middle Standard Examination in Metal work. The sons of local artisans or of metal workers from other places, who have passed the 8th class of a general education school and who have some knowledge of Metal Work and Drawing, may be admitted in the 1st year class, if there are vacancies.

Candidates who have passed the Matriculation Examination can be admitted to either of the courses after their receiving training for one year in a Preparatory Class. Literate sons of artisans who have no knowledge of Drawing

and Metal Work will be admitted in the Preparatory Class if there are vacancies.

The duration of these courses is 3 years, exclusive of the Preparatory Class.

Preparatory Class —In this class, students will be trained in Elementary Metal Work and Drawing upto a standard, which will enable them to follow the instructions given in the regular courses. Duration of training in this class is one year.

Admission to all classes of the school takes place on 1st of April. All applications for admission to the various classes should reach the Head Master by the 5th March.

A limited number of scholarships and stipends will be awarded to deserving and poor students.

Hostel accommodation will be provided for outstation students provided the number of applicants is large enough to warrant the provision of such an accommodation.

Security is Rs. 10.

Amritsar :—Government Central Weaving Institute.

The Institute consists of two classes :—

- (1) Class A.—(Higher Class).
- (2) Class B.—(Artisan Class).

Class A (Higher Class).—The accommodation in this class is limited to 15 seats. This class aims at turning out students who on completing their training will be capable of

acting as teachers and organizers of textile industry and will be in a position to start their own business on modern lines. Students who have passed the Matriculation Examination of the Punjab University or an examination of an equivalent standard of any other recognised university will receive preference at the time of admission. Non Matriculates may also be admitted to this class if there are vacancies after the admission of matriculates provided however, that these non matriculates possess one or more of the following qualifications —

(a) Have read up to X class or took the Matriculation Examination but got plucked

(b) Possess technical and industrial qualifications.

(c) Are acquainted with art of hand loom weaving

Class B (Artisan Class).—This class has been established for the benefit of the weaver's community only. Both adult weavers and their sons are admitted to this class. The number of admissions to this class is limited to 40. The courses are of one year's duration.

Admission to both the classes of the Institute takes place on the 1st of October.

All applications for admission to the class A (Higher Class) should reach the Textile Master by the 15th of July and should contain the following particulars —

- (1) A certificate showing that the candidate has passed the Matriculation or any equivalent examination.
- (2) Name, address and occupation of father or guardian.

(3) An attested certificate of age of the candidate.

(4) Race and religion.

(5) A certificate of good moral character signed by the Principal or Headmaster of the college or school in which he studied last, or in case of those who have not studied in any regular institution of a responsible, Government official or some respectable person.

(6) A medical certificate showing that the applicant is in good health.

Applications for admission to the class B (Artisan Class) are ordinarily received in the month of July, but they can be *entertained at other times also, subject to the discretion of the Textile Master.* These applications should contain legible information regarding name, address, age, caste, educational qualifications (if any), connection with the industry, previous occupation and father's or guardian's name, occupation and address. They should also be accompanied by a certificate of good character signed by a responsible Government official or some respectable person and a certificate to the effect that the applicant wishes to join the Institute with the express permission of his guardian.

Class A (Higher Class) — Ten stipends of the value of Rs. 12 per month each are awarded to deserving students of the 1st year Higher Class with due regard to educational qualifications at the time of admission.

Eight scholarships of the value of Rs. 15 per mensem each are awarded to deserving students of the 2nd year Higher Class, on the examination results of the 1st year Higher Class.

A limited number of stipends of the value of Rs. 5 to Rs. 15 per mensem each are awarded to students of the Artizan Class on ground of poverty consistent with merit and connection with the industry

Nominees of Indian States or other provincial Governments will be admitted in the Institute on the payment of a sum of Rs 250 per annum for the duration of the course

'A' Class students are required to deposit a security of Rs 10 and 'B' Class students a security of Rs 5, which will be returned after deduction of all dues on their leaving the Institute.

All the students at the time of admission should be provided with Rs. 25 to defray initial expenses such as security, mess advance games fee purchase of sample books, etc

Delhi (Egerton Road) —Technical Institute of India

(Branch at Victoria 2nd Cross Lane Bombay No. 10).

Electric Mistry Course.

Candidates over 15 years of age will be admitted to this course without regard to educational qualifications

The fee for the Mistry's Course is Rs 100.

The period of instructions is three months for this course.

The price of tools will be about Rs. 5.

Boarding Seat Rent Rs. 20 for the term.

Photographer Course.—Fee is Rs. 50 Period one month. Rent Rs. 7. Books for private study Rs 2-4.

Electrician Course.—Candidates knowing English and Arithmetic and over 15 years of age are eligible for Electrician Course.

The fee for the Electrician Course is Rs. 150.

The period of study is six months.

The price of books, tools and stationery etc. is Rs. 12.

Boarding Seat Rent Rs. 35 for the term.

Electrical Engineer Course.

(*City and Guilds of London*)

Grade I—

The City and Guilds of London Institute is an examining body of England, incorporated by the Royal Charter and its Certificates are recognised by the Government of India.

The Guilds' examination is held at Provincial Centres under the authority and supervision of Government in April-May every year. The questions are set and certificates granted from London.

Students who have passed the Matriculation or other equivalent examination or whose English and Mathematics are good, will be admitted in this class.

The fee is Rs. 200 for the Electrical Engineer Course I.

The period of instruction for this course is nine months.

The cost of the tools, books and stationery etc. is Rs. 25.

Boarding Seat Rent Rs. 50 for the term.

Grade II—

This course gives advanced knowledge to Engineering students. There are two sections A. C. and D. C. One or both the subjects may be taken at the same time. In case one subject is taken provisional certificate will be granted if the student is successful but this will be exchanged for the final certificate when the student completes the second subject.

The Student who have passed the City and Guilds' or this Institute's First Grade Examination are eligible for this Course.

The fee is Rs. 300 for the Electrical Engineer 2nd Grade Course.

The period of training is one year for both the subjects.

Books and Stationery cost about Rs. 30.

Boarding Seat Rent is Rs. 70 for the session.

Guilds' Examination fee is Rs. 6 per Paper.

Residence in the Institute Hostel is not compulsory. Ordinary arrangements for lodging have, however been made.

The food can be arranged from hostels at Rs. 6 to 10

per mensem at Delhi and Rs. 15 upwards at Bombay (according to quality of food demanded).

Signaller Course.—This is the best Course for Service on Railways, Canals and Post Offices.

Fee Rs. 50. Period 3 to 4 months. Price of books is Rs 2. Rent Rs. 20.

Station Master Course.—Including the above Signaller's Course, Telegraphy Coaching and Goods Traffic (covering the duties of Booking, Parcels, Goods and Trains Clerks, Signallers and Ticket Collectors)

Fee Rs. 75. Period of study 3 to 5 months. Price of books Rs 6 Rent Rs. 25.

Telegraphist Course.—Including the Signaller's Course and Higher Technic with speed of 20 words per minute. The candidates of this Course are prepared for the City and Guilds of London Institute Grade I Examination which is held annually under the authority of Government.

Fee Rs. 80. Period of study 6 months Price of books Rs. 8 Rent Rs. 25. Examination Fee Rs. 6.

Wireless.

Wireless Course —This covers Sending and Receiving at 18 words per minute on Buzzar Theory of Wireless. Working Demonstration and Building of Receiving Set. Accumulator Charging etc. The candidates are prepared for the City and Guilds of London Institute Grade I Examination held annually.

Fee Rs. 100. Period of study 6 months. Price of books Rs. 25. Rent Rs. 30. Examination Fee Rs. 6.

Electrotherapy.

Radio Health Course.—Electro Medical Treatment on Violet Ray Apparatus for curing every kind of disease without drug Bright future for Operators.

Fee Rs. 20 Period one week. Boarding rent free.

Printing.

Press Manager's Course.—This course comprises the duties of Compositor Distributor Machineman and Foreman. The uses of inks,—layout of types—selection and materials. Estimating Proof reading and making bills etc This is entirely a practical course.

Fee Rs 100 Period of study 6 months.

Gujranwala —The Pioneer Hosiery College

The period of training will be 6 months divided into two parts of 3 months each

The College sessions will commence on 15th of October and 15th of April, in each year.

The medium of instructions is English and Urdu.

Fees are Rs 120 for the Session to be realized in 6 equal instalments i.e Rs 20 per month.

Knitting Yarns (Cotton, wool and silk) will be supplied free of charge by the College.

Only those candidates who have passed at least the Matriculation examination or an equivalent standard of a recognised Indian University are eligible for admission into

this College. A limited number of students will be taken. Casual students may be admitted at the discretion of the management. Candidates shall fill up the College's printed application form for admission. Non matrices may even be admitted.

There is a hostel attached to the College.

A student's monthly expenditure will ordinarily be between Rs 8 and 10 comprising board and lodging.

The trained industrious students can, with a moderate investment be quite able to earn from Rs 3 to Rs 15 per day.

Jullundur —Government Woodworking Institute.

Three courses of instruction are provided in the Institute :—

Ordinary Course for the training of skilled artisans in all branches of furniture making on modern lines—This course is intended for boys who have passed the Industrial Middle Standard Examination in woodworking or those possessing equivalent qualifications. Students having passed Vernacular Middle Standard Examination for general education will be admitted after their receiving training for one year in a Preparatory class. The course will be for a period of 3 years. The minimum age for admission to this class is 13 years. Candidates over 20 years of age will not be eligible for admission.

The Advanced Course for the training of superior

workmen capable of becoming foremen, supervisors or draftsmen —The students of this class will be well advised to supplement their training before taking up appointments as supervisors or foremen by working as apprentices for one year in a workshop or factory under commercial conditions after completing their course in the Institute. The students who intend to become teachers of wood work in Industrial Schools will have to undergo one year's course in the methods of teaching at the Mayo School of Arts, Lahore. Candidates who have passed the Matriculation Examination with drawing and have had a course of manual training at a recognised manual training centre or have passed the Final Examination of a type II Industrial School (when and if they come into existence) will be eligible for admission into this class. The course of instruction will ordinarily be for a period of 3 years but students from Industrial Schools of type II may be exempted from the first year course. Students above the age of 15 but not over 20 will be admitted into this class.

Special Artisan Course in Machine work and Machine Shop Practice —This course is intended for such local artisans who are literate in Vernacular only and desire to improve their general trade knowledge as regards Saw Milling and Machine Work. The duration of this course will be one year. The number of students to be admitted into this class will not exceed eight during any one year and they will not be of less than 17 years of age.

Preparatory Class —This class aims at the training of students coming from schools for general education for admission into the ordinary or advanced course classes. Duration of training in this class is one year.

Admission to all the classes of the Institute takes place on the 1st of April. All applications for admission to the various classes should reach the Headmaster by the 15th March and should contain the following particulars —

Name, address, occupation of father or guardian.

A certificate showing the examinations passed by the candidate.

An attested certificate of age of the candidate

Race and Religion.

A certificate of good moral character

A medical certificate showing that the applicant is of good health.

A certificate to the effect that the applicant is joining the Institute with express permission of his father or guardian.

Hostel arrangements exist.

A limited number of scholarships and stipends will be awarded to deserving and poor students in accordance with the rules governing the award of such scholarships and stipends contained in the Punjab Industrial Education Code.

No fees are charged.

Lahore —Dayanand Industrial School.

The School is financed and controlled by the Dayanand Anglo-Vedic College Managing Committee.

Subjects taught and period of training —

- | | |
|--------------------|-----------|
| 1. Tailoring | 2½ years |
| 2. Book Binding | 2½ years. |
| 3. Carpentry | 3 years. |
| 4. Cycle repairing | 6 months. |

Hindus and Sikhs of the non artizan class are eligible for admission into the school, provided they satisfy the Headmaster that they have a real desire to learn the craft and are sound in body and mind.

Candidates must have attained the age of thirteen years on the date of admission into the school.

The candidates must have passed the lower Primary Class Examination or successfully undergo the test prescribed by the School.

Candidates who have been admitted will be on probation for at least a month and if aptitude for the work is shown at the end of this period, they will be enrolled as regular students.

Time for admission,

Twice yearly,

1st April to 15th April and 1st October to 15th October.

Fees —

Admission fee	Re 1.
Security	Rs 5.

Security is refundable on the Candidate's completing the course.

No tuition fees are charged.

Scholarships —

(a) 10 Scholarships of Rs. 5 each

(b) 10 " " , 6 "

(c) 10 " " , 7 "

The Scholarships are awarded on merit. They are tenable for 6 months and are payable in accordance with rules for the purpose.

Tools are provided free of charge for the work done in the school premises but they must be returned to the class Instructor each day.

The medium of instruction in the School is Hindi.

The students are trained to repair and overhaul a cycle.

Lahore (Shahdara) —Government Institute of Dyeing and Calico Printing.

There are the following three classes —

(A) Foreman Dyers Class.

(B) Artisan Dyeing Class.

(C) Calico Printing Class.

(A) Foreman Dyers Class.

The duration of the course is two years. It aims at turning out students who after completing their training will be capable of taking up responsible positions in dye-houses or of starting their own independent business. The courses

of instruction comprise training in the theory and practice of bleaching dyeing, calico printing finishing and the chemical technology of textile fibres. The courses have been so devised that the students can also compete for the examination of the City and Guilds of London Institute (Department of Technology in bleaching, dyeing and calico printing of textiles. The medium of instruction is English.

(B) Artisan Dyeing Class,

The duration of the course is one year. Students are given training in the theory and practice of dyeing and bleaching. The medium of instruction is Urdu.

(C) Calico Printing Class

The duration of this course is one year. This class aims at teaching artisans the theory and practice of the modern methods of calico printing and the application of fast dyes.

The medium of instruction is Urdu.

Casual Students.—Apart from students admitted in the foregoing regular classes, such artisans engaged in weaving, dyeing, calico printing and allied industries as wish to improve their knowledge or to tackle any special problems connected with the industry, are admitted as casual students throughout the year when the Institute is in session, subject to accommodation.

The admission of students takes place after the summer vacation which ordinarily lasts from the middle of July to the end of September

Applications for admission should be submitted not later than the 31st of August

Candidates seeking admission in the Foreman Dyers Class should be matriculates of the Punjab University or should possess an equivalent qualification. Preference will be given to those who have taken Physical Science as one of their subjects. Candidates who have not actually matriculated but have studied Physical Science up to the matriculation standard may be admitted to the class if sufficient number of matriculate candidates are not available for admission.

Candidates for the Artisan Dyeing and Calico Printing Classes should possess some knowledge of arithmetic and should be able to read and write in a vernacular (Hindi, Urdu or Gurmukhi). Sons of calico printers, dyers, weavers and others connected in any way with the weaving or dyeing industry will have preference at the time of admission and in their case, the condition of literacy will not be enforced.

Candidates of all classes must fulfil the following conditions —

They must not be less than fifteen years of age at the time of admission.

Every application in the prescribed form must be accompanied by a certificate by a gazetted officer or a responsible non official as to character of the applicant.

The hostel provides accommodation for 48 residential students.

Tuition fees at the following rates are charged in the three classes of the Institute.—

Rate of fees per mensem.

		Rs.	a	p.
(1) Artisan Dyeing Class	...	0	8	0
(2) Calico Printing Class	...	0	8	0
(3) Foreman Dyers Class	...	1	8	0
Casual students	...	2	0	0

Students belonging to Indian States or other provinces seeking admission into the Institute through the agency of the Indian States or their provincial Governments or on their own application will be admitted on payment in advance of an annual fee of Rs. 300.

Foreman Dyers Class.

(a) First year.—Six stipends of Rs. 9 per mensem each will be awarded on the basis of qualifications.

(b) Second year.—Five scholarships of Rs. 9 per mensem each will be awarded to the best students on the results of the First Year Foreman Dyers Class final examination.

Artisan Dyeing Class.

Eight stipends of Rs. 7 per mensem each will be awarded with due consideration to merit, poverty and connection with the industry.

Calico Printing Class.

Six stipends of Rs. 7 per mensem each will be awarded subject to the same conditions as are applicable in the Artisan Dyeing Class.

Research and Mill Training Scholarships.

Four scholarships of Rs. 15 per mensem each will be

awarded on the results of the final examination of the Foreman Dyers Class for further research at the Institute for a full session (9½ months). Five scholarships of Rs. 20 per mensem each will be awarded to the successful students of the Foreman Dyers Class in order of their merit in the final examination in order to enable them to receive mill training in dye-houses attached to textile mills in or outside the province for a period of six months.

Lahore (Shahdara) —Government Weaving Demonstration Factory.

The factory accepts three kinds of paid apprentices .—
Class A of 5 apprentices.

Class B of 12 „

Class C of 30 „

'A' class apprentice get Rs. 20 p. m. per head, 'B' class apprentice Rs. 14 per head and C class apprentice Rs. 15 per head.

The course is of two years' duration in all classes.

Graduates and undergraduates, are admitted to A class, Matrics to B class and weavers or those who have passed Artizan class to C class.

Apprentices are taken when vacancies occur from time to time.

Arrangement for board and lodging exists.

Certificates are granted by the Department of Industries, Punjab, to all those who complete 2 years' training.

No posts are guaranteed by the Government.

Lahore —Government Technical School

The object of the school is to provide free craft training combined with suitable literary education for the sons or near relatives of artisans and to prepare intelligent literate craftsmen capable of taking up responsible positions in factories and firms etc. Non artisan boys are also eligible for admission on payment of tuition fees.

The School consists of Primary Lower Middle and Upper Middle Departments. Boys seeking admission to the School from other schools are kept in the special class to make up their deficiency in Drawing and Craft work. They are then transferred to the regular Classes of the School.

The session begins on the 1st of April each year.

The School is closed for the annual summer vacation for two months generally from the 1st of August to the end of September.

The sons or near relatives of artisans are exempted from the payment of fees. Others pay fees at the rates of 0 12 0 to Rs. 2 p. m.

Rs. 65 per annum will be charged as fee from the students of Indian States and other Provinces seeking admission to this School.

Scholarships

The number and value of scholarships awarded in the four higher classes of the school are as under —

Provincial Scholarships.

Class	No	Value. Rs.
5th	6	5
6th	8	5
7th	8	10
8th	8	15

Lord Lawrence Scholarships

5th	2	7
6th	2	8
7th	2	12
8th	3	18

The scholarships are awarded on merit They are ten able for one year only.

Industrial subjects of study — Besides drawing, Woodwork, Metal work Metal turning Tin and Copper Smithing, Casting and Moulding, Pattern making, Draftsman Estimating, Electroplating Upholstry are also taught

No hostel is attached to the School

**Lahore (Outside Shahalm gate) —Hindu Sabha
Industrial Ashram.**

Arrangements have been made by the Punjab Provin cial Hindu Sabha, to train Hindu young men in various in dustrial arts and crafts, as apprentices in various industrial and business concerns and institutes at Lahore. Students can be admitted at any time. The board and lodging are free. About 50 students are admitted

Lahore —Mayo School of Arts.

The object of the school is to give instruction in the art of design, with special reference to the artistic industries, indigenous to the Punjab and to the Architectural and Decorative styles of art peculiar to the Province.

Students above 14 years of age only are admitted to the Mayo School of Arts for the ordinary school course only in the months of April. These conditions do not apply to candidates in the Middle Standard Examination for Industrial Schools who should join within a fortnight from the date of the announcement of the Examination results.

Boys of 14 years of age who pass the 7th Educational standard may be admitted into the preparatory classes with a view to join the craft classes of the school if they successfully pass the examination at the end of the year.

Boys of a lesser literate qualifications than the above are not admitted, Boys over the age of 20 years are not admitted to any classes in the school unless they have previous qualifications in the craft they select which would entitle them to admission to the II or III year course.

Exception to the above may be made in the case of boys of higher literate standard provided they have either a knowledge of drawing or a craft sufficient to admit them into the 1 year class course.

Students seeking admission to the school must produce discharge certificate from the school last attended to by them.

The annual vacation is observed from the first week in July to the end of September.

The work of the school is divided into five main sections :—

- (i) Preparatory Section.
- (ii) Industrial Arts Section.
- (iii) Commercial Painting Department.
- (iv) Fine Art Section.
- (v) Drawing Teachers Training Department.

The Preparatory Section.

All students except in Fine Art Section or those joining the school from an Industrial Middle School must go through a prescribed course in the classes for preparatory subjects for a period of one year. They will receive instruction in—

(1) Freehand and Memory Drawing. (2) Geometry
(3) Scale Drawing. (4) Model Drawing. (5) Perspective.
(6) Plant Drawing. (7) Clay Modelling. (8) Handicraft; such as Wood work and Metal-work and Decorative Painting.

After having passed successfully through this course, they will be qualified for study in one of the higher departments detailed below.

Note.—Students applying from local Industrial School may not be required to attend this course, but will be admitted to their various classes according to their qualifications.

The Industrial Arts Sections.

The course in this department will be of three years and is specially arranged for those students who desire to make themselves proficient in any one of the Industrial Arts taught in the school. Instruction is given in the following subjects :

(1) Cabinet work. (2) Blacksmithy. (3) Copper-smithy and Silversmithy. (4) Jewellery and enamelling. (5) Modelling in Clay and Plaster casting. (6) Lacquer work.

Students in this section will also work through a course of advanced drawing design and estimating.

Commercial Painting Department.

The craft of staining graining painting varnishing and polishing is one that has never been properly taught in this country. This craft combined with the art of sign writing trade lettering in English and Vernacular as applied to advertising show cards and posters opens up to boys of sufficient education a trade that is in demand.

The course of plain painting staining and graining with sign writing is of two years with a third year for advanced work such as decoration gilding and high class finishing.

Fine Arts Section

This section provides a complete training in drawing and in painting both in Indian and European style as well as Mural Decoration and Decorative painting. This section is intended for advanced students who have already received a sound training in drawing and painting in the Mayo School of Arts or elsewhere. If space permits amateurs and others who show promise may be admitted on probation. The course is for three years.

No detailed course of studies is laid down as in a subject like Fine Art, the individual tastes and capabilities of the student is the main consideration. The following general principles are given for information —

A thorough knowledge of drawing with a good knowledge of English to fit the student for advanced training in drawing and painting from caste and human figure and the understanding of English technical and art books in the library is essential.

The course of studies includes drawing and painting in monochrome and colour from still life drapery and casts of the human figure. Rapid sketching in pencil and charcoal from the human head and figure. Composition studies illustrating selected subjects Water colour and oil painting from the figure. Landscape sketching and painting.

Students may study both the Indian and European traditional painting but must make a special study of one or the other in the advanced classes for the purpose of professional work while in the School

All students' on admission must possess a drawing board 25 inch \times 17 inches the square set squares compasses, and the essential handtools of the craft they propose to study

Fees — These are levied from all students

Preparatory Class	0 8 0 p. m.
Industrial Section 1st year	1 0 0 p. m.
2nd year	1 8 0 p. m.
3rd year	2 0 0 p. m.
4th year	2 0 0 p. m.
Special Fine Art Section	2-0 0 „
Commercial Painting Section	1-0-0 „
Drawing Teachers training class	2-0 0 „
Casual Students in all classes excepting the Special Fine Art Section	2-0-0 „

Casual Students Special Fine Art Section 5 0 0 p. m
Students belonging to Indian States
and other provinces 250 0-0 p. a.

Scholarships.

The average value of a scholarship or a stipend shall not exceed Rs 8 per month.

Scholarships shall be awarded to the best students in the various departments on the result of the annual examination without distinction of means or caste.

Stipends shall be awarded with due consideration to merit poverty and connection with the industry They will usually be awarded annually after one month's test in May and will be payable from the date of admission.

No scholarships or stipends will be awarded in the Preparatory class, nor during vacations.

Local boards stipends.

These are granted by district and municipal boards and also by independent States to students who are resident of those localities. These stipends are usually of Rs. 10, per mensem, and are granted to deserving students on the recommendations of the Principal. Formal application for these stipends must be addressed to the Principal.

The list of scholarships and stipends will be revised after each term and can be reawarded, if necessary.

A special Fourth Year Class has been started for the handicraft students and is reckoned as part of the regular course for the purpose of the award of scholarships and stipends.

Lord Lawrence Scholarships.

Two scholarships tenable each for a period of two years of the value of Rs. 16 for the first year of tenure and Rs. 21 for the second year of tenure shall be awarded annually at the Mayo School of Arts, Lahore. During the first year of scholarship, the holder will act as a monitor and during the second year as a pupil teacher.

Four scholarships shall be current at any one time, two in the penultimate year and two in the final year classes. Of these scholarships, one shall be drawn in each of the following classes —

1. Wood Working.
 2. Decorative Painting Modelling or Lithography.
 3. Blacksmithy.
 4. Light Metal Work.
-

Lahore — Punjab University Honours School in Technical Chemistry (F. C. College).

The Honours School in Technical Chemistry was instituted in 1925, as a three years' course following the Intermediate Examination and leads to the degree of B. Sc. Honours School in Technical Chemistry and the M. Sc. on Thesis after one year more of approved research work.

By an arrangement with the Forman Christian College Lahore, the work of the Honours School is carried on in the Technical Chemistry Laboratories of this College. Lecture work in English and General for the first year and Physical Chemistry in the second and third years is carried on in the

University Chemistry Laboratory. Engineering work and Mechanical Drawing in the first and second years is carried on in the MacLagan Engineering College, Moghulpura. All other work is carried on at the Forman Christian College.

The School is open to students of all Lahore Colleges, who have passed the Intermediate Examination with Physics and Chemistry admission being made by the Board of Control through the Director. Applications for admission should be made to the Director through the Principal.

Students pay fees to their own College which in turn pays to the University the required Honours School Fees. No fees are payable to the Forman Christian College except by those students who have joined this College. They are required to pay the regular College fees as shown below. Students of other Colleges do not pay any fees to Forman Christian College.

Summary of Fees
(I or F C C Students)

An Entrance fee of Rs 15

<i>Annual—</i>		Rs	a.	p.
Library		3	0	0
College Magazine		2	4	0
Common Room	(For Boarders)	2	0	0
Utensils	(For Boarders)	1	0	0
University fee		3	0	0
Breakage —				
I year		20	0	0
II year		20	0	0
III year		30	0	0
IV year		30	0	0

<i>Monthly—</i>		Rs	a	p.
Tuition	I and II year	12	0	0
,	III and IV year	15	0	0
Games & Physical Education		1	8	0
Residence —				
Cubicles	... Rs. 4 to 12	0	0	0
Dormitories	. Rs. 3 to	0	0	0
Industrial Subjects include —Oil Fats, Waxes, Soaps,				
Pottery Essential Oils Sugar Pottery Heavy chemicals				
Leather Glass, Paper Matches Starch and glue etc				

Ludhiana —Government Hosiery Institute.

The Government Hosiery Institute Ludhiana has been established with a view to imparting technical instruction in the modern methods of knitting by the use of latest types of round and flat knitting machines and in the production of artistic and up to date designs in the manufacture of socks mufflers bunnies, pullovers sweaters, cardigans, jumpers, jackets jerseys shawls etc. Training is also given in the art of dyeing with fast colours and repairing and fitting of hosiery machines and appliances.

The Institute comprises of two classes Admissions to "A" Class are restricted to such students as have passed the Matriculation Standard of the Punjab University. Recruitment to "B" Class is made from such students only as are associated with the hosiery industry either directly or indirectly. Accommodation in each class is limited to 20 seats and the duration of courses in both classes is one year.

Provided room is available, special short courses are

arranged for such people as are engaged in the hosiery trade and require assistance in a particular branch of the subject. Candidates should ascertain and settle beforehand the time as to when they can be admitted by making a reference direct to the Hosiery Expert, Government Hosiery Institute.

Applications for admission should reach the Hosiery Expert by the 15th September. The applicants should not be less than 14 years of age. No tuition fee is charged. Selected candidates will be required to present themselves at the Hosiery Institute for interview on the 30th September. Students admitted into the Institute will maintain a cash deposit of Rs. 10 with the Hosiery Expert, which will be refunded on the termination of the course of study unless otherwise forfeited. An additional deposit of Rs. 2 will be maintained by students desirous of living in the hostel which will be refundable on the termination of their stay in the hostel and Rs. 5 as library security which will be also refundable on the termination of their stay in the Institute.

10 stipends of the value of Rs. 8 to 7 per mensem each are awarded to deserving students.

Ludhiana —Swadeshi Manufacturing Syndicate Ltd.

This is a Public Limited Concern styled as above, and manufactures woollen knitted goods of all description, such as pullovers, cardigans underwears Lady-coats, jumpers, etc.

Allied to this factory, there are classes wherein apprentices, are trained on the various knitting machines, tailoring, finishing and warping departments.

Two stipends of Rs. 10 each are awarded to two ap-

prentices and to others, according to syndicate's discretion.

All the apprentices are required to get training for six months after which they are required to work for $1\frac{1}{2}$ years, for which they are paid remuneration, varying from Rs. 10 to 20, according to their qualifications

After the completion of the above time, the student at liberty to seek employment somewhere else, or, to continue to work in the factory as workman.

Sialkot city —Government Metal Works Institute.

• It is fully equipped with modern equipments in metal working.

Foundry Course is of 3 years duration.

• Fitter Mechanic and Turner Course is of 3 years duration

It includes electro plating also.

Session begins on 1st April. Application for admission should reach before 15th March. Admission is open to those who have passed class VIII examination of some Industrial School. Moreover sons of artisans who have passed middle examination from some recognised arts schools and know carpentry or blacksmithy work, are also admitted. Matures are admitted into preparatory class (of one year duration) and are trained in Drawing, Metal Work, Pattern Making, Mechanics and then they are admitted to 1st year class.

Candidates should not be under 20 years of age.

No fees are charged from students of British Punjab.

From students of other provinces and of Indian States a fee of Rs. 105 is charged per head.

Security deposit of Rs. 10 is charged from every candidate.

Boarding House exists. Charges are 1s + p m.

Other Industrial Institutions in the Punjab

Government Harding Industrial School, Lyallpur

Government Industrial Schools at Kasur, Ferozepur, Rohtak, Multan, D. G. Khan, Montgomery, Hoshiarpur, Sialkot, Gujrat, Rawalpindi, Gujranwala, Sargodha, Kulu, Ambala, Ludhiana and Jullundur.

Government Weaving Schools at Multan, Karnal, Jalandhar, Jattan, Shum Chaurasi (Hoshiarpur).

Criminal Tribes Weaving School, Palampur (Govt.)

M. B. Industrial School, Amritsar.

Arya Samaj Orphanage Industrial School, Ferozepur.
School for Blind, Amritsar.

Mission Industrial School, Gurgaon.

Church Mission Society Women's Industrial Home, Lahore.

Anjuman-i-Hamayat-i-Islam-i-Orphanage, Lahore.

Sir Louis Dane Weaving School, Ludhiana.

Bharatari Industrial School, Leiah.

Benarsi Das High School, Ambala Cantonment.

Mayo Industrial School, Simla.

Lawrence Royal Military High School for Boys, Sanawar.

Lawrence Royal Military High School for Girls, Sanawar (Simla).

Government School for the Blind, Lahore.

UNITED PROVINCES

Agra —Bonton Tailoring College.

This is a private Institution

Admission is open throughout the year but January and July are the best times for admission

No age restriction regarding admission.

Candidates must know Urdu or Hindi. A knowledge of English and Mathematics is very helpful

The course is of 9 months but it can be finished earlier by intelligent and hard-working candidates.

Business handling is also taught besides scientific cutting and tailoring.

Total tuition charges are Rs 120 in lumpsum and Rs. 160 by instalments of Rs. 40 each. No reductions are possible.

Hostel arrangement exists.

Monthly charges come to Rs. 15 for boarding and lodging.

Special arrangements exist for training ladies

Agra (Dayalbagh) —Leather Working School.

The school imparts both theoretical and practical instruction and, being attached to the Leather Goods Factory, Dayalbagh provides to students unparalleled opportunities of receiving a thorough training in the art of leather goods making

The school is open to boys of all communities without distinction of the caste or creed.

The session of the school begins on 15th July, and the School closes for long vacation from the 15th May to 14th July.

Candidates, seeking admission to the school, must be of robust health and literate. Applications for admission should be made to the Superintendent of the School in the prescribed form and should ordinarily reach the office before the commencement of the session. Preference will be given to students who have studied at some school and who furnish a certificate of good character from the Head Master of that School.

Where necessary, an entrance examination will be held to test the ability of the candidates to follow the school courses. Ordinarily, a fixed number of students will be admitted in each class, but the Superintendent has power to exceed the limit when he thinks necessary.

No tuition fee will be charged at present.

The course of studies extends for three years.

Aligarh —Government Metal Working School.

The school is located in the buildings of Mr. Ratan Lal on the Grand Trunk Road (Rahman-Ki-Sera) and has workshop fitted up with power-driven machines.

There are two courses of instruction (a) Mechanics Class of 3 Years duration (b) Artisan Class of 2 years duration.

Mechanics Class.

Qualification upto middle standard. The medium of instruction is Vernacular, except for Technical terms which will be in English.

Compulsory Subjects.—Drawing (Geometrical and model) *Practical Mathematics*, *Pattern making*, *Moulding*, casting, Forging, General Fitting, Polishing, Elementary Lathework and Principles of Co-operation.

Optional subjects —One of the following two groups to be taken.

(a) Lockmaking, Engraving, Building and Furniture fitting and Electroplating.

(b) Sheetmetal work, Pressed metal work, Miscellaneous metal goods, stove enamelling and finishing.

Artisan Class.

No educational qualification is necessary, preference to be given to boys of artisan class and literate candidates. The course is thoroughly practical. There will be three sections

1. Lockmaking and Engraving.
2. Sheet metal work
3. Building and Furniture Fitting.

Fee —No tuition fee from students of U. P., Games Fee Rs. 3 per annum from all students.

A certain number of stipends is awarded to poor and

deserving U. P.^s students. Application for these are only considered after they have actually worked for some period.

Limited hostel accommodations are available. A monthly rent of Rs 1 is charged for lodging and furniture.

The cost of board and lodging is approximately Rs 7 per month. If room permits poor students can be allowed to cook themselves which is considerably cheaper.

Applications for admission should reach the Superintendent, before the 15th of July and must be accompanied with—

(a) A Certificate of good character.

(b) A certificate of residence in U P.

(c) A certificate showing that candidate has sufficient means to defray his expenses

(d) The School certificate showing qualifications

(e) A Deposit of Rs. 5 for Mechanics Class and Rs 3 for artisan class

Note —1. The deposit will be refunded if no seat can be found, if seat is provided the amount will be held as caution money for issue of articles, tools and books etc. etc.

New Session continues from July. Candidates approved for admission are duly informed by the 15th, of July. Further particulars can be had from the Superintendent.

Allahabad —Government Carpentry School.

Teaching will be given both in the Vernacular and in English

The School Course will be from 1st July to 19th May ; but for the benefit of Artisans and others the School Work-rooms will remain open during the Vacation months, and Practical work may be carried on.

Application for admission should reach the Principal complete in all respects not later than June 30th, and if necessary an examination may precede admission.

All Tuition is free.

Some stipends are awarded on merit after admission.

Artisans' Class

Course is of 2 years

No Educational qualifications are required but students must have a practical knowledge of Carpentry.

General Wood-Working Class

Course is of 3 years

Preference will be given to applicants who have studied up to High School Standard.

Advanced Wood-Working Class.

Course is of 3 years

Admission to this class will only be made on the completion of the General Wood-working course or a proved capacity to undertake advanced study.

Teachers' Training Class

Course is of 2 years.

Admission to this Class will be made from men who have completed the General or Advanced Classes in the Allahabad or some kindred School, or who can demonstrate their ability to take up the subjects within the period prescribed for this Course.

The development of Technical education offers good prospects to men of good education and application.

Polishing and Painting Class.

Course is of 3 years.

No Educational qualifications are prescribed

Upholstery Class.

Course is 3 years.

No Educational qualifications are prescribed.

Other Classes.

With the development of the School, it is intended that the Courses will include the teaching of the Working of Saw Mill and general Wood-working Machinery for which Special Classes will be held, and which will also be available for the Students in the Senior Classes. Special Classes for Factory Foremen and Managers may also be arranged

Allahabad :—Municipal Leather Working School.

The object of this school is to afford a systematic training in the art of boot and shoe making as well as other sundry leather articles on modern lines.

The course is of 2 years duration.

No accommodation is provided for the residence of the students at present, but private arrangements can be made

Admission will be made generally at the commencement of the sessions, i.e., in July. All applications for admissions with which should be attached the last school certificate and a certificate of respectability signed by a prominent resident of the town should be submitted to the Education Superintendent not later than the 25th June

No fees are charged at present, but the Municipal Board reserves to itself the right to charge any fees afterwards from any class of students.

Applicants for admission should have studied at least up to the Upper Primary Standard. Applicants should be between 15 and 25 years of age.

Bareilly :—Government Central Wood-working Institute.

The object of the Institute is to train wood workers in the use of improved hand and machine tools and to provide facilities for the training of men in the Allied Trades of Timber Seasoning Wood-finishing, and Upholstery.

Courses of Study.

The following courses of instruction are provided for the numbers noted :—

			Students admitted	
1.	Cabinet making and Joinery, Elementary	3 years	20	
2.	Ditto Advanced	2 "	20	
3.	Ditto Artizan	2 "	15	
4.	Ditto Foreman	2 "	10	
5.	Wood working Machinist's Course	3 "	25	
6.	Painting Polishing, and Wood-finishing	2 "	15	
7.	Upholstery	2 "	10	
8.	Kiln Seasoning Course	12 months	4	

Students to be eligible for admission to the Kiln Seasoning class must have passed the School Leaving Certificate or the Matriculation Examination and have had not less than 3 years' training in an Engineering School. This course is a specialized course for students with engineering experience.

Candidates for admission to the Foreman's Class must have completed the course in the Advanced Section.

Hostel accommodation is provided for 120 students. A monthly fee of Re. 1 is charged and a Hostel admission fee of Re. 1 is also charged on admission. Students have to pay the cost of their keep which averages approximately Rs. 12 per mensem.

The School session commences on July 1, and ends on May 20 each year, the Vacation period being between these dates.

Applications must reach before the 15th June each year.

Bareilly (Bara Bazar) —The National Tailoring and Cutting Institute.

There are two courses 'A' and 'B' and a candidate may choose any one of them according to his requirements.

"A" Course.—The time required to complete this course is six months.

"B" Course.—It includes cutting of all the garments mentioned in the 'A' course except Military Garments. It will take a period of five months to finish.

Fees.

For 'A' Course, the fee is Rs 120 to be paid in five instalments, Rs. 40 on admission and four monthly instalments of Rs. 20 each, payable within the first week of every month.

For "B" Course, Rs 100 to be paid in four instalments; Rs. 40 on admission and three monthly instalments of Rs. 20 each, payable within the first week of every month.

A student intending to pay his fee in one sum at the time of admission can pay Rs. 110 and Rs. 95 for "A" and "B" courses respectively. From poor students charges are Rs. 85 and Rs. 70 respectively.

Students, desirous of obtaining a Diploma from London, will be required to sit for that examination on payment of £ 3. Successful students will get Diplomas through the Principal, the recognized Instructor of the London Academy.

Every person can be admitted to this Institution, if he

can calculate the ordinary figure work. It would be to his advantage if he has got a fair knowledge of English, Urdu or Hindi.

The session will remain open for twelve months and admission can be made on any day.

Special arrangements have been made for the proper accommodation of the outside students. The expenses will amount to about Rs. 10 per month.

The charges for postal tuition are Rs. 110 . Rs. 20 on admission and the balance in nine monthly instalments of Rs 10 each, (payable within the first week of every month).

Lessons can be sent in English, Urdu or Hindi and will be accompanied by a note of Instructions to facilitate the thorough understanding of the subject matter.

Benares :—Batuk Prasad Khattri Industrial Institute.

Its aims are to re awaken the true pride for creative work by teaching and improving the traditional methods of design and craftsmanship of Benares brass-work and to train the students in such a way that they will be able to turn out works of artistic merit and utility to suit the modern demand.

The subjects taught in the institute include, (i) drawing and designing, (ii) shape-making, (iii) polishing and finishing, (iv) engraving and enamelling, (v) repousse, (vi) moulding, casting and turning, (vii) drawing as applied to other fine arts of Benares such as wood work, stones and embroidery.

Classes.

(i) *Non-artisan class.*—This is meant for those who have no previous knowledge of the work. Knowledge of reading, writing and drawing, etc., up to the eighth standard of the Anglo vernacular schools is required. The duration of course will be of five years—two years general training in drawing and designing, shape making and polishing and finishing, followed by three years' intensive training in any of the following groups of subjects —(i) engraving and enamelling, (ii) repousse and engraving (iii) moulding casting and turning

The maximum number of students in this class is restricted to 15

Three scholarships each of Rs. 5, Rs. 6, Rs. 7, Rs. 7 and Rs. 7 tenable for 12 months in the year are available in the 1st, 2nd, 3rd, 4th and 5th years respectively

(ii) *Artisan class* —This class is meant for those who know something of the work and are desirous of improving their technique and design. The course is of three years

The subjects will be the same as in the intensive training of the non-artisan class. The maximum number of students will be 4 in each year. Only such candidates will be admitted as are likely to make proper use of their training after passing the school course.

Four stipends of Rs. 15 per mensem each tenable for the whole year will be given in each of the artisan classes. Besides the stipends the students will be given wages if they turn out good work of a saleable character

The session is from the 1st of July to the 20th of May

and is divided into two terms—July to December and January to May.

Admission will ordinarily be made in the beginning of the session. Applications for admission must be made on the prescribed form (to be had from the school office) to the Head Master up to the 24th of June. Where necessary, an entrance examination will be held to test the ability of the applicants to follow the school course

No fees are charged. But students coming from other provinces and states shall have to pay a fee which will be fixed by the Government and the Director of Industries, United Provinces.

At present there are no arrangements for hostel accommodation.

Benares — Benares Hindu University (Ceramic Section).

The duration of the period for the diploma course either in (a) metal-enamelling or (b) pottery and porcelain should be of two years for all students, who have passed either the Inter Science or the B. Sc. examination with Chemistry as one of their subjects.

The duration of the period for the same diploma course either in (a) metal-enamelling or (b) pottery and porcelain should be of one year only for all B. Sc. students of the Benares Hindu University who have passed the examination with Ceramics as a special subject.

The first Examination for the Diploma course should be held in March-April 1933. Admission in July, each year.

Benares .—Benares Hindu University (Department of Industrial Chemistry).

The new admissions begin in the first week of July of every year. Applications for admission should be directed to the Principal, Central Hindu College, Benares Hindu University, in the form prescribed for the purpose, a copy of which can be obtained from the college office

Students coming from other Universities shall be admitted according to the rules given in the general prospectus of the Central Hindu College.

There are four courses of study, namely (1) B. Sc. in Industrial Chemistry (2) M Sc in Industrial Chemistry, (3) Diploma course in Soap manufacture Metal Enamelling, and Pottery and Porcelain manufacture and (4) Special course for casual students

The B Sc course is of two years duration and only such students as have passed the Inter-science course with Physics, Chemistry and Mathematics are eligible for the course. The subjects for examination are (1) General Chemistry, (2) Industrial Chemistry, and (3) General and Chemical Engineering. The courses of study in Chemistry are the same as in the case of general B. Sc students. In Industrial Chemistry, besides two compulsory theoretical papers, students have to take one special paper in either (a) oils and soaps or (b) ceramics in the senior years. The students have to undergo a general course in practical analysis and a certain amount of special commercial work. For this purpose the Department is very well equipped with the necessary machinery for semi-commercial operations. Gene-

ral and Chemical Engineering includes a knowledge of Heat Engines and Applied Mechanics, Electrical Engineering and Mechanical Drawing. Instruction in practical training in these subjects is imparted at the Engineering College attached to the University.

To M. Sc Course only such students as have passed the B. Sc examination in Industrial Chemistry or a similar course are eligible. The course is of two years' duration and the examination is held in the following six papers (1) Oils, Fats and Waxes, (2) Soaps and essential oils, (3) Physical Chemistry, (4) Inorganic Chemistry, (5) Organic Chemistry, and (6) Chemical Engineering. Besides this there is a practical examination corresponding to every subject excepting Chemical Engineering.

The Diploma course in soap manufacture is open to all B. Sc.'s with Chemistry as one of their subjects. The duration of the course is one year only at the end of which a regular University examination is held. For students who have passed the Inter-Science examination with Chemistry the course is of two years at the end of which a regular University examination is held. The fees for the Diploma course are Rs. 150 for the whole year, payable in three instalments of Rs. 50 each.

There is a provision for special casual students who are admitted at the discretion of the Professor-in-charge. The fees for such students are Rs. 25 per month.

Benares :—Government Central Weaving Institute.

The session of the institute commences on 1st July and ends on 19th May each year. Application for admission on admission form accompanied by certificates of education from the head master of the school last attended and of good conduct should reach the Principal by 20th June. Admissions are ordinarily made at the commencement of the session.

The Institute comprises of the following classes —

Artizan class	One year's course
Junior „	„ „
Advance „	„ „
Senior „	Three years' course
Teachers Training Class	One year's course
Hosiery Class	„ „

Admission qualifications.

Artisan Class.—Preference will be given to weavers hereditary or by profession.

Junior Class.—Students who have passed Artisan Class examination from this institute or any of the weaving schools recognised by the Department of Industries, U. P.

Advance Class.—Students who have passed the Junior Class examination from this Institute or any weaving school recognised by the Department of Industries having equivalent standard.

Senior Class.—School Leaving or Matric passed. For those who have not passed any of the aforesaid examinations an admission examination will be held in English, Arithmetic and Vernacular in the beginning of the session

Teachers Training.—Students who have passed the Senior III Year Class Examination of Government Central Weaving Institute, Benares

Hosiery Class.—Hindi or Urdu knowing boys

Scholarships and stipends in Weaving classes —

A limited number of scholarships and stipends are awarded subject to modifications by Government —

Artisan Class —17 stipends of Rs. 7 p. m. each for 10½ months.

Junior Class.—2 scholarships of Rs. 8 each p. m. for 10½ months.

Junior Class.—7 scholarships of Rs. 10 p. m. each for 10½ months for students of Model Weaving schools joining for further training

Senior Class.—6 scholarships of Rs. 8 each p. m. for 10½ months 2 in each of I, II and III year classes.

Boarding is provided for out station students only and a fee of Re 1 per month is charged from each boarder.

Students from other provinces besides U. P. shall have to pay fee of Rs. 30 per mensem payable in advance for 12 months.

A sum of Rs. 5 is charged as caution fee.

Benares (87, Cantonement) —Wesley Industrial School.

The School is under the control of the Wesleyan Methodist Missionary Society, and is supervised by a

Managing Committee appointed by the Synod of the Lucknow and Benares District of the above Society

Courses

4 Years for Carpentry

4 , Iron work

3 , „ Polishing.

3 , „ Tailoring.

In these courses emphasis is laid on practical work, but one hour each day is given to Theoretical work such as Practical Drawing, Geometrical Drawing and Elementary Costing

A kit of tools valuing Rs. 60 shall be given to wood work students completing their course provided that the Principal's report on them is satisfactory.

Fees.

For students in the Hostel the fee charged over the whole course is Rs. 9 per month for eleven months in each year. This amount covers the cost of training in the School and Hostel charges for food. Fees for students not resident in the Hostel shall be fixed by the Principal. An initial payment of Rs. 20 is required of all wood work students in order to meet the cost of tools. This amount will not be refunded.

Attached to the School is a Hostel accommodating fifty Christian boys.

Brindaban —Prem Mahavidalaya

The Prem Mahavidyalaya is the outcome of Raja Mahendra Pratap's great sacrifice. He founded it twenty years ago.

The Prem Mahavidyalaya is managed by a Trust and the Estate with which it is endowed.

The special feature of the Prem Mahavidyalaya is the combination of literary and technical education. Every student in the school gets industrial training side by side, and students coming primarily for industrial training are given some literary instructions also.

It is not affiliated to any university and has no connection with the Government.

Village Workers Training Class.

Matriculates only admitted. Course $2\frac{1}{2}$ years. Stipend holders have to pledge that they will serve the village for 10 years. Courses of studies: Rural economics, Elementary citizenship, Co-operative movement, Agriculture, Spinning, Carding, Weaving, Sanitation, Hygiene and First aid. Rs. 15 as scholarship is given to students who are admitted. Only limited scholarships are given.

Commerce

Another department to which Matriculates are admitted is the Commerce Department which gives training in Short-hand, Typewriting and Book-keeping. Students are prepared for the examination of the National Union of Teachers', London.

The Mahavidyalaya is one of the centres for the above Examination. Hindi Typewriting is also taught.

Pottery and Ceramics.

There is a special course covering up the Science and industry of ceramics and pottery. It extends over three years with another six months period as apprenticeship and is open for admission to all Matriculates or those who have otherwise acquired ability up to that standard.

To provide modest and practical training in glazed pottery and chinaware to students of ordinary intelligence with a view to fit them up for independent careers, two additional alternative courses are added this year. Training is provided in clay modelling and painting, glazed pottery and stoneware, white porcelain and chinaware paper machia work and use of the potter's wheel. Each course extends over 2 years with a period of six months for apprenticeship and is open to all students having read up to primary standard. Both the courses can also be taken together in which case only 3 years will be required to finish up the combined course.

Scholarships are granted, preference being given to depressed classes and sons of professional potters who are also allowed credit in time for the work already learnt by them.

Mechanics Class.

For students who have not gone through a regular school course there is provision in the workshop for training as turners, moulders and fitters.

The course is of two years duration.

Carpentry and Smithy.

No previous literary qualification is required of candidates for admission to this department also. The course takes three years to complete. Good prospects for students trained in this Department.

In the Weaving department there is provision for Cloth and Carpet Weaving. The course extends over one year. After that the students are taken as paid apprentices for another six months. During the apprenticeship period the students are paid their wages. Candidates for admission need not have received previous school training.

Tailoring Class.

The course takes one year after which six months apprenticeship is compulsory. During the apprenticeship, the students are paid their wages. Candidates for admission must have a knowledge of Hindi up to the Upper Primary standard.

Special Drawing Class

Two years' Course. Students desirous of joining this class must have a fair knowledge of English besides any of the vernaculars such as Hindi and Urdu.

Arrangements are being made for opening a Music class which will very probably be inaugurated during the course of this session.

Press Apprentice Class.

Students for admission should have a knowledge of Hindi up to the Upper Primary standard. The course ex-

tends over one year. Book-binding, composing and general press work are taught.

Scholarships.

A limited number of scholarships are given to deserving students. These are given under the following conditions. Each scholarship holder in the case of minor his guardian, will undertake (1) to pay back the amount received by him in small instalments at the rate of 15 p c from his salary till the whole amount is paid back (2) to pay back within 6 months the whole amount received by him, if he does not complete the course

Each student must deposit Rs. 5 as caution money

Each student must pay Rs. 10 in advance for mess.

Mess charges ordinarily amount to Rs. 9 per month exclusive of ghee and refreshments.

Spinning and Khaddar

All students and teachers in the Prem Mahavidyalaya are expected to wear hand spun and hand woven khaddar

Mahavidyalaya session runs from middle of July to the first week of June

The school closes for summer vacation for about six weeks in June and July.

(a) During Vidyalaya hours students can devote to one Industry only.

(b) * Students in all the industrial classes who have not sufficient literary knowledge, are compelled to attend literary classes for at least two hours a day.

Subjects —Hindi, Arithmetic, Drawing and general knowledge.

Bulandshahr —Government Textile Institute

The School has two sections, Weaving and Cotton Printing. Applications for admission will be made not later than June 15.

No fees will be charged from residents of the United Provinces.

No fee is charged in the Hostel, but students make their own arrangement for food which costs about Rs 7 per mensem

The age of students should not be less than 16.

Cawnpore —Government Leather Working School.

The object of this school is to afford a systematic training in the art of boot and shoe making as well as the manufacture of other sundry leather articles on modern lines. The course is of 2 year's duration.

No tuition fee is charged from the residents of this Province. Students coming from other provinces and Native States shall have to pay a fee of Rs 20 p. m

Hostel arrangements exist.

Admission—Lowest qualification required for admission is lower primary standard.

The school session commences from 2nd January and

1st July each year and the cases of admission are finally decided on or about 20th January and 20th July each year. Forms of applications can be had from the office.

Cawnpore — Government School of Dyeing and Printing

Courses of Instruction — There are two courses of instruction.

(a) *Foreman Dyers* — Two years in dyeing and third year in Calico printing

(b) *Artisan Class*. — One year in dyeing and second year in calico-printing.

Foreman Dyer Class — The medium of instruction is English. The instruction consists of — (1) Lectures, and practical work in Chemistry as applied to Textile colouring. (2) Lectures and practical work in dyeing, bleaching and Calico-printing of cotton, wool and silk and on machines and materials used therein.

Artisan Class. — The medium of instruction is vernacular. The course is thoroughly practical accompanied with weekly tutorial classes. The class aims at improving methods of Indian dyers. Special short courses are arranged in dyeing and calico-printing for the benefit of those engaged in trade.

Standard of Admission — Applicants for Foreman Dyer Class should be either matriculates of any university or holders of School-Leaving Certificates. Number of admission is limited to 15 only.

No special standard of admission is insisted upon in the

case of Artisan Class. Applicants must know either Hindi or Urdu. Number of admission is limited to 15 only.

Fees—(1) No tuition fees from *bona fide* residents of U. P. (2) Full cost of training to students deputed by other Provincial Governments or Native States. (3) Non-U. P. students other than those mentioned in (2) Rs. 360 per annum or if paid monthly Rs. 30 per month payable for all 12 months of the year. (4) Games fee annas 8 per mensem from all students. All fees payable in advance (5) State and other Provincial Governments must give definite agreement to pay as tuition fees full cost of training as may be fixed by Director of Industries U. P., for students deputed by them.

A certain number of scholarships is awarded to U. P. students.

Application for Admission should be made on the prescribed form, and should reach the principal not later than 20th June.

The application for admission must be accompanied with (a) certificate of good character, (b) University or school certificates showing qualifications, (c) a deposit of Rs. 5 for Foreman Dyer Class and Rs 2 for Artisan Class, (d) a certificate that candidate has sufficient means to defray his expenses of training, (e) certificate of residence in U. P.

Note.—(1) The deposit will be refunded if no seat can be provided; if seat is found, the amount will be held as caution money for issue of articles and books.

New Session commences from 1st July.

Limited hostel accommodation is available. A monthly rent of Rs. 2 is charged.

An allowance of Rs. 20 to Rs 25 p. m. would suffice.

Cawnpore —Government Textile School

To train students in the theory and practice of cotton-carding spinning and weaving on power machinery so as to qualify them as assistant carding, spinning and weaving masters and eventually to become managers of cotton concerns

The medium of instruction is English. The course extends over three years with lectures on textile fibres and machinery, engineering, physics, mathematics, mechanics and drawing, along with practice in machine workshop and physical laboratories.

Applicants for admission should be either Matriculates or holders of School leaving Certificates or its equivalent. Preference is given to those who took up science or drawing as their optional subjects and who are athletes with good physique

Admission is restricted to a limited number of students, out of which five should be mill nominees. Mill recommendation bears much weight for selection. The application for admission should be in the prescribed form with certificates of good character and of education.

Fees.—(1) No tuition fee to *bona fide* United Provinces students.

(2) Students deputed by other Provincial Governments or Native States are to pay proportionate cost of training.

(3) Non-United Provinces students are to pay Rs. 360 per annum.

One merit scholarship of Rs. 10 per month and three

stipends of Rs. 10 per month are awarded each year to deserving students of United Provinces only. Efforts are also made to procure some stipends from Municipal, District Boards, and other Trusts.

Session commences on July 15 and ends with two months' practical training in a cotton mill on June 1st.

The hostel is a big two storied building with extensive play grounds within the school compound.

Expenses come to about Rs. 20 per month.

Application for Admission should be made on the prescribed form and should reach the Principal not later than July 1.

Cawnpore —Harcourt Butler Technological Institute.

The Institute offers a sound general training in Applied Science to fit men for responsible positions in manufacturing industry or to take up productive manufacturing work on their own account.

Four main departments exist —

- (1) General Applied Chemistry
- (2) Leather Technology
- (3) Oil "
- (4) Sugar "

The Courses of Instruction proceed immediately from the standard of the Intermediate in Science and are normally of 3 years' duration. In their first year all students take virtually the same course, with differentiation only in the minor particular of one lecture and one laboratory session per week in the specialised branch which the student proposes

to follow in his second and third year. This first year course comprises General Chemistry, Physics, and Engineering, and is intended to give an adequate scientific basis for direct appreciation of any of the three specialised courses (2), (3) and (4) above—it alternatively serves as a foundation for more detailed and advanced study in the General department. In the second and third years the study of General Chemistry, Chemical Engineering and Engineering is maintained throughout the Institute as the backbone of the Courses of Instruction. The special subjects and particularly practical work in these however occupy the mean time period in the second and third years.

The ordinary three years course leads to the diploma of the Institute. Students who are of a suitable quality may be retained in the Institute for a further course of two years, and sit after that period for the more advanced Fellowship examination of the Institute. As already indicated the training given in the Institute is based upon the application of Physics, Chemistry and Engineering to the consideration of manufacturing operations. In industry, the pure theorist is at a discount, and particular stress is laid upon practical work. The student is accordingly prompted to familiarize himself with the various details of operations entailed in industry in the departmental factories of the Institute, similarly, further visits to industrial undertakings are arranged or a student may temporarily be posted to a factory for training. Particular attention is given to the development of self reliance and confidence in dealing with technical matters, based upon a thorough understanding of basic principles.

Admissions to the Institute are made annually upon the

result of a competitive entrance examination held yearly in July. Applications from prospective students to sit for this examination must be submitted to the Principal on the prescribed form not later than May 1 in each year. Every candidate will be required to produce testimonials (which will not be returned) of good moral conduct under the hand of the Principal under whom he has been educated.

The minimum qualification for admission to this examination is the *Intermediate examination in Science of the Board of High School and Intermediate Education of the United Provinces* or an examination accepted as equivalent thereto. Applications from prospective entrants who are sitting also for the Intermediate examination will be accepted subject to the condition that they first pass the Intermediate examination before presenting themselves for the Institute entrance examination. At present there is no age restriction.

The entrance examination include the subjects set in the Syllabus of the Intermediate examination in Science (Mathematics, Physics and Chemistry) but questions of a general character may be set which are beyond the scope of this Syllabus. Two papers each of three hours are set from which candidates are selected for a further oral examination. As the examination is formed, it is intended to discover the best talent from among those sitting for the examination particularly those with an aptitude for technical and industrial work.

Candidates who are required to attend the Institute for the oral examination are called upon to produce the practical note books of their work in the year immediately preceding

this entrance examination. On the results of the entrance examination scholarships and studentships are awarded and other entrants selected for admission.

A maximum of twelve scholarships (three per department) each of a value of Rs. 25 per mensem tenable for a period of three years may be awarded annually to those United Provinces students who reach a satisfactory standard in the entrance examination. These scholarships carry the privilege also of free tuition. In addition eight studentships (two per department) may be awarded annually which carry free tuition for three years.

To be eligible for one of these scholarships, or a studentship a candidate must be a *bona fide* resident of the province or having settled in the province, must have resided there for the three years immediately preceding the examination. Certain other Provincial Governments offer scholarships tenable at the Institute which also are decided by the entrance examination.

A further limited number of admissions of United Provinces residents and others are made upon the result of the competitive examination already mentioned. Such students are required to pay a compounded fee of Rs. 1,500 per year during the period of their residence at the Institute. A maximum total of ten such students may be in residence in the Institute at a time.

Special part time students provided they fulfil the requisite qualifications, may be admitted at the discretion of the Principal.

The marks obtained by a student are cumulative, and

his performance throughout his Institute career is considered in making the award of a diploma.

The session of the Institute begins on July 15 with vacations (May 15 to July 15) and at Dasehra. Upon admission new entrants are required to deposit Rs 65 including deposits against breakage of apparatus, games fees, hostel and scientific society membership as noted below —

Students are charged for apparatus which they break. To cover these charges a deposit of Rs. 20 is made annually by each student, the unexpended balance being refunded at the end of the session.

Students are generally required to live in the Institute Hostel which provides living accommodation with furniture at the cost of Rs 3 per mensem. Students make their own messing arrangements. The total estimated cost of living for a student at Cawnpore is Rs. 40 per mensem.

Fatehpore :—Government Tanning School.

The object of this school is to train village tanners in the modern methods of tanning, curing, and finishing.

Application for admission should be made to the Head Master of the school not later than June 15 in each year.

The session commences each year on July 1. The school will be closed during June for summer vacation.

No fees will be charged from residents of the United Provinces. The full cost of training will be charged from students who are deputed by other provincial Governments. In the case of non-United Provinces students not so deputed,

but coming in a purely private capacity, the fees will be settled by the Director of Industries on the advice of the Advisory Committee

Candidates for admission should be between 16 and 25 years of age. Candidates of more than 25 years of age may be admitted in special cases with the sanction of the Director of Industries

Applicants should be able to follow the instruction given in the school, and to take down notes.

The course will extend over a period of two years.

Lucknow — Government School of Arts and Crafts

Application is to be made before June 30. An Entrance examination will be held about July 15. Applicants must be between the ages of 13 and 18 years

The Fine Arts section, limited to 20 students, gives instruction in four branches of art work *viz* Still Life Painting, Figure and Land scape Painting, Portrait Painting from Life and Modelling from Life.

Metal Work Classes — Goldsmith's work (Jewellery, Gold Casting and Engraving), Silversmith's work (Shape making Engraving Casting, and Repousse), Brass and Copper Smith's work (Repousse and Casting), Iron work (Hot and cold), Wood Work (Constructive Turning, Carving, Inlaying, and Polishing) Architectural Decoration (on the flat, in colour and in relief) and Bookbinding in leather. Applicants should have passed the 6th Class, for the above subjects.

Art Printing Department gives instruction on Lithography and Chromo-Lithography from Stone, Zinc, and Aluminium plates, Photo-Lithographic Process, Line Blocks in Zinc, Half Tone and other Photo-mechanical Processes. The average cost of living in the boarding house excluding school fees is found to be about Rs. 12 per month for each student.

Training of Drawing Masters.

Applications must reach the Principal not later than July 1. Applicants must be between the ages of 12 and 23 and should have passed the High School Examination of the Board of High School and Intermediate Education with Drawing as an optional subject, or an equivalent examination with Drawing as a subject. No candidate who has not resided in the United Provinces for a period of at least three years prior to the submission of his application will be eligible for admission in the class.

Course is of two years. Students who have studied for two years in the Fine Arts Class will be allowed to complete their course for the Teacher's Training Class in one year instead of two.

**Lucknow —The Tailors' School of Art and Science
of Cutting Academy.**

The Academy teaches tailoring and all its allied branches. No fixed session and terms. Students having a little knowledge of English are admitted. Fee is Rs. 200 for the entire course. For correspondence tuition, it varies from Rs. 30 to Rs. 150 according to the number of lessons. Mr. K. S. Agnihotri should be written to for detailed information.

Mainpuri :—Lal Singh Man Singh Ashram.

There are following classes —

(1) Carpentry	2 years course.	No fees.
(2) Embroidery.	2 „ „	„ „
(3) Weaving	1 „ „	„ „
(4) Tailoring & cutting.	2 „ „	„ „
(5) Class for blind children.		

Stipends are available for all classes.

Every child is taught besides his course, Hindi, Sanskrit and English.

Admission is open to Khatri students only.

Hostel arrangements exist for all.

Board and lodging are free

Meerut —Government Leather Working School.

No fees are charged from residents of the United Provinces, but Government reserves the right to charge any fees afterwards from any class of students.

The Superintendent is authorised to admit students from other provinces of India and from Indian States.

A certain number of Stipends, Entrance Scholarships and Leaving Scholarships are granted.

The following scholarships and stipends have been provided for the school —

Three stipends, tenable for 10 months, total value Rs. 18 per mensem.

One Entrance Scholarship, tenable for two years, at Rs 15 (To be awarded to entrance passed students only).

One Artizan stipend, tenable for 10 months, at Rs. 10 per mensem.

One Leaving Scholarship, tenable for two years, at Rs. 8 per mensem.

Arrangements have been made for a Boarding house attached to the school.

The sessions of the school for admission begin on the 15th July and 2nd January every year.

Admission will ordinarily be made only at the commencement of the session. Applications for admission must be made on the prescribed form to the Superintendent through the Head Master of the school at which the applicant was educated, or, if the applicant has not been at school, through his legal guardian. Application should reach the Superintendent complete in all respects not later than the 30th June for the first session commencing from July or 15th December for the second session commencing from January.

All students on entering a regular course of study must sign an undertaking to attend the full period of the course, failing which they will be liable to be called upon to refund to the Director of Industries, United Provinces, the total amount which in the opinion of the officer may have been expended on their instructions.

Qualifications required.—Applicants should have studied at least up to the Lower Primary School.

Where necessary, an entrance examination will be held to test the ability of the applicant to follow the school courses.

Meerut Cantt. (Wahid ud-din Road) —Lalkurti Hosiery School.

The Institute consists of Spinning, Sizing, Warping, Silk and Cotton Weaving departments. Weaving of gold embroidered fabrics on jacquard machines, Designing, Drawing and Estimating, Fitting of machines, Bleaching and Finishing of Silk. Cotton and Gold embroidered fabrics are also taught. The courses extend for 2 years. No fees are charged.

Saharanpur —Christian Industrial School.

School opens ordinarily about August 1 and closes about June 15.

Departments.

Blacksmith —The course is designed for 3 years.

Carpentry.—The course is designed for 3 years.

Contracting —The course is of 3 years' duration and is a new venture. It is designed to equip a student with adequate knowledge of the builders' and contractors' trades.

Motor Mechanics.—The course extends over 3 years and includes one year of required Blacksmithing. The work is planned to lead to a thorough knowledge of the general upkeep overhaul and repair of various types of motors.

Sailing.—The course is of two to three years' duration.

Admission will ordinarily be made at the commencement of each session. In the case of Punjab applicants,

students will also be admitted during the first week of April.

Applications should be made on the attached forms and should be accompanied by a credential from some responsible person.

No student under 12 years of age is admitted, nor one who is more than 22 years old. Preference is given to boys whose ages are between 14 and 20.

The applicant must be of good moral character, and physically fit. Good eyesight is a special requirement.

(a) *Blacksmith Course*.—Minimum age—14 years. Educational requirement.—none. 5 students only are admitted each year.

(b) *Carpentry Course*.—Minimum age—14 years. Educational requirement.—none. 20 students are admitted each year.

(c) *Contractor's Course*.—Minimum age—16 years. Educational requirement—Middle Passed. One student admitted each year.

Motor Mechanics. Minimum age—16 years. Educational requirement—Middle Passed. 10 students admitted each year.

(c) *Sailing Course*.—Minimum age—12 years. Educational requirement—none. 12 students admitted each year.

A Leaving Certificate is required, if from another School.

Married students are not admitted.

Fees.

The co-operating Mission, *i. e.*, the American Presby-

terian and the New Zealand Presbyterian Missions, contribute annual maintenance and grants, and have fixed proportionate quotas of students on the basis of these grants. The average cost per student is estimated on the basis of total maintenance cost, including the salaries of the missionary staff or capital expenditure. Hence, the regular fee is Rs. 15 per month per student. This fee includes tuition, Rs. 7, board, Rs. 6; and hostel, medical and athletics fee, Rs. 2-0-0.

Fees are payable in advance and no concessions can be made. No special accommodation can be provided in the hostel. All boarding students are expected to participate equally in the common life of the school.

Other Industrial Institutes in U. P.

Government Cotton Printing School Muttra. Cotton Printing.

Carpentry School Naini Tal.

Carpentry School Fyzabad.

Carpentry School, Dehra Dun. (Smithy, Carpentry.)

Model Weaving Schools at Najibabad (district Bijnor), Almora, Mau (district Azamgarh), Agra and Muzaffarnagar.

Weaving and Cotton Printing School, Bulandshahr.

Model Weaving School, Khairabad, district Sitapur.

O. and R. Railway Technical School, Lucknow (aided).
Trains European and Anglo Indian apprentices in Railway Workshops to qualify them as Supervisors. Least qualifi-

cation for admission is Junior Cambridge Examination pass. No definite session given. Outsiders are not admitted.

Vaish Orphanage School, Meerut (aided).—Orphans are taught in Carpentry, Tailoring, Gardening, Weaving, Leatherwork, etc. No qualifications needed for admission. No session fixed. No scholarships granted. Hostel exists. Out Province orphans admitted

Arya Samaj Orphanage, Bareilly (aided).—Courses in Carpentry, Painting, Varnishing, Weaving and Gardening. Hostel exists. Out Province students admitted. Qualification for admission—Ability to read Hindi.

Salvation Army Boys' Industrial School, Bareilly (aided) Session 1st July. No fees. No qualification needed.

A. M. E. Boys Industrial School, Aligarh (aided). Courses in Shoe Making Carpentry, Motor Works repairs. It is for Christian students only No qualification for admission is needed.

S. P. G. Mission School Roorkee (aided).—Open throughout year No qualifications needed for admission. Non-Christians also admitted Shoe Making and Weaving

C. M. S. Industrial Mission School, Sikandara, Agra (aided).—Courses in Carpentry, Iron Work, Printing Press Work for Poor Christians No fixed sessions. No fixed fees Hostel exists. Average ability needed for admission

Fatehagarh Mission Industrial School, Fatehagarh, (private).—Training as Teachers for Shoe making, Carpentry, Blacksmithy, Stone Cutting, Wood and Stone Carving, Brass Cutting. No fixed session No qualification for

admission needed. No fees charged. Liberal Scholarships given. Hostel for Christian only.

Ramsahai Shiksha Bhawan, Nowagawan, Fatehapur (aided).—Courses in Weaving, Carpentry, Sewing, Printing, Drawing, Soap Making, etc. No qualifications for admission needed. Session 1st July. No fees.

Muslim Orphanage, Meerut.

Hindu Depressed Classes Industrial, Khurja.

Muslim University City Weaving Class, Aligarh.

Weaving Schools at Orai, Jhansi, Jalalabad, Kalpi, Gorakhpur, Pauri, Gonda, Partabgarh, Barabanki and Mohobli.

Carpentry Schools at Almora, Srinagar, Haridwar, Jhansi.

Home for Women in Distress, Benares.

Arya Samaj Tailoring School, Lucknow.

Dayanand Orphanage, Lucknow.

All India Shia Orphanage, Lucknow. Carpentry, zardozi, leatherworking, weaving and tailoring.

Sri Ram Orphanage, Lucknow. Carpentry & tailoring.

Mason Leather Working School, Rudauli (Barabanki).

Leather Works

Municipal Board Weaving and Tailoring Classes, Bareilly.

District Board Industrial School, Farrukhabad. Weaving, tailoring and carpentry.

Chaube Gur Narain Trust Industrial School, Manikpur (Etawah). Weaving and smutty.

Hindu Orphanage, Cawnpore. Carpentry and tailoring.

PAID APPRENTICESHIPS IN GOVERNMENT ORDNANCE FACTORIES.

The following are the rules and regulations for the recruitment of apprentices for training in Ordnance Factories in India.

Part I—General

A candidate must be a male and either —

(i) A British subject of Indian domicile whose father (if alive) is a British subject, or a subject of a State in India, or (if dead) was at the time of his death either a British subject of a State in India or a person in the permanent service of the Crown, or a person who had retired from that service or

ii) A ruler or a subject of a State in India in respect of whom the Governor General in Council has made a declaration under section 96A of the Government of India Act.

Provided that in the case of a British subject the requirements of this rule may be waived by the Secretary of State in Council if he is satisfied that their observance would occasion exceptional hardship, and the candidate is so closely connected by ancestry or upbringing with His Majesty's dominions as to justify special treatment.

In selecting candidates the claims of domiciled Europeans, Anglo Indians, Mohammadans, Hindus, Sikhs, Punjabis, Madrasis, etc, will be considered. No one class or caste will predominate.

The final selection of candidates for appointment will be made on the recommendation of the Public Service Commission and only candidates selected by Local Selection Committee, will be considered at the final selection.

Part II.—Qualifications of candidates and method of selection.

(i) Every candidate shall make application before such date and in such form as the Governor General in Council may direct. The application shall be made to the authority of the area in which his parents reside at the time of his application or have previously resided for a period of not less than 3 years or in which he has himself resided (otherwise than as a student at a school or university only) for a like period.

(ii) The application shall be made, if based on residence in a Governor's provinces, to the Chief Secretary of that province, if based on residence in Coorg the North-West Frontier Province Delhi Ajmer Merwara or British Baluchistan to the Chief Commissioner concerned, and if based on residence in a State in India, to the Political Officer or Agent through the Darbar.

(iii) No applicant shall make more than one application for each selection.

No recommendations except those invited in the application will be taken into consideration. Any attempt on the part of candidate to obtain support for his application by other means may disqualify him for appointment.

A candidate must be in good mental and bodily health and free from physical defect likely to interfere with the

efficient performance of his duties as an apprentice in the Ordnance Factories.

A candidate must satisfy the Public Service Commission that he is in all respects suitable for employment in the Ordnance Factories.

The candidates to be selected as apprentices must be under 19 years of age on the first day of January of the year in which applications are invited.

Candidates must have passed the Intermediate Examination in Science or Engineering of a University or Board approved by the Governor General in Council or the Cambridge Higher School Certificate Examination or the Higher Diploma Examination of the Mayo College, Ajmer, and must possess an elementary knowledge of Dynamics, Statics Mathematics up to quadratic Equation, Elementary Trigonometry and Physics

Note —For the selections to be made by local selection committee, the Cambridge School Certificate Examination will also be accepted.

Candidates must be unmarried and must undertake not to marry during the period of their apprenticeship

Candidates must pay the following fees —

- (i) Rs. 5 with the application form.
- (ii) Rs. 16 before examination by a Medical Board.

No claim for a refund of these fees will be entertained

The method of selection of candidates will be the same as notified in paragraphs 21 to 26 and 28 of the Railway Department (Railway Board). Notification No. 880-E G. dated 17th September 1931.

*Part III.—Period and Course of Training and Terms
and Condition of Service*

Candidates finally selected will be appointed as apprentices in the Ordnance Factories. The period of their training will be normally five years the first four years of which will essentially be practical shop training of medium machine shop and mill-wrighting character. On completion of the 5 years' apprentice training there will ordinarily be a further 2 years' journeyman course not necessarily in Ordnance Factories, and the ex apprentice will during this period, be expected to earn his own livelihood.

The pay of an apprentice will not exceed —

	Rs
1st year .	40 per mensem.
2nd year ...	50 ,
3rd year	60 , ,
4th year .	70 , ,
5th year	80 , ,

Although housing accommodation is not guaranteed, the apprentices will be required to live in Government Hostels where these exist. Charges on account of house rent, lighting, water tax and conservancy will, in the latter case, not be recovered from the apprentices.

Fifteen days' leave on full pay or 30 days' leave on half pay in the year will be granted to an apprentice at the discretion of the Superintendent or other Officer in charge of the Factory. Casual leave with pay for a period not exceeding one month at a time will also be granted for periods of absence authorised by the medical authorities on account of injuries received while on duty, etc.

The apprentices will have to abide by any local rules framed by the executive officer of the respective factories.

There is no guarantee to employ apprentices on the completion of their courses, though everything possible will be done to give or secure employment for them. Nor will it be obligatory on the apprentices to remain in the factories on the completion of their courses

The following appointments will be open to the successful apprentices who are employed in the Ordnance Factories —

Temporary Supervisor	...	On a pay up to Rs. 200 p m.
Chargeman	..	@ Rs. 200—10—300/50—5 ~350 p m ,
Assistant Storeholder	...	@ Rs. 375—15—435 p. m.
Assistant Foreman		@ Rs 375—15—435, 6th year Rs 460, 8th year Rs 470 and 10th year Rs 490 p. m.
Storeholder		@ Rs. 500—20—600 p. m.
Foreman	...	@ Rs. 500—20—600 p. m. After 10 years Rs. 650 p. m.

Note.—The above rates of pay are subject to such alteration as Government may hereafter decide upon

CINEMATOGRAPHY AND SOUND ENGINEERING.

There is no recognised institution throughout the country which imparts theoretical or practical training in cinematography or sound engineering. The best course is to approach the Proprietors Cameramen or Sound engineers of the various film producing concerns in the country and arrange for apprenticeship under them as Cameramen, Sound engineers, Mechanics, etc.

The following are some of the film producing companies which may accept apprentices .—

The New Theatres Ltd Calcutta.
Prabhat Cinetone of Kolhapur.
Saraswati Cinetone of Poona.
Saroj Movietone of Bombay
Sharda Movietone Co , Dadar, Bombay.
Ranjit Movietone Co , Bombay.
Sagar Movietone, Bombay.
Imperial Film Co Bombay.
Madan Theatres Ltd., Calcutta
Bharat Movietone Bombay
Krishnatone, Bombay.

For training in foreign countries in these lines, the following institutes are suggested, the first named being the best and most efficiently staffed of its kind —

(a) New York Institute of Photography, 10, West

33rd Street, New York City, U. S. A. (5 to 8 months' course. Fee \$ 210'00).

- (b) American School of Photography, 3601, Michigan Ave, Chicago, U. S. A.
- (c) Signal Corps School of Photography, New York.
- (d) University of California, Los Angeles

For *Scenario Writing*, Palmer Institute of Authorship, Hollywood, U. S. A., is the best.

For *Sound Engineering*, R. C. A. Institute, at 75, Varick Street, New York and at Chicago, are the best institutions.

26 weeks is the minimum length of time required in the sound engineering course, day class.

The total tuition fee for the sound engineering course is \$ 226 00 and the cost for room and board in the city average from \$ 10 00 to \$ 14'00 per week, depending upon one's standard of living.

For further particulars about these institutions consult Mohan's "Guide to Foreign Studies" 2nd Revised Edition.

Insein —Government Technical Institute.

Artisan Training.

The artisan classes provide training in the Vernacular, and enable artisans to become efficient foremen after further experience on the works. Those whose parents or guardians do not reside in the Rangoon or Insein Districts are granted stipends of Rs. 14 monthly in the first year, rising by Rs. 1 monthly each year to Rs. 17 in the fourth year.

Candidates must be 15 years of age, and their training lasts for four years.

Candidates for entry to these courses may select the particular subject in which they wish to be trained. The subjects are —

Carpentry—leading to pattern making

Carpentry—leading to builders' work.

Smiths' work—including sheet metal work.

Bricklaying

Electrical wiring.

Cawnpore —Harcourt Butler Technological Institute.

The aims and objects of the Harcourt Butler Technological Institute are (a) to be a centre of technological research with a view to promoting the industrial development of the United Provinces and of the country, and (b) to be a recruiting centre for technologists qualified to occupy positions on the supervisory staffs of selected industries

There are three separate departments in the Institute.

- (1) General Research Department
- (2) Sugar Department, and
- (3) Oil Department.

General Research Department.

There is no regular teaching in this department but advanced research workers who possess a degree in Science or Agriculture are admitted for a period of two years, the number being limited to a maximum of two each year

These advanced research workers by actual work receive training in methods of industrial research being associated with and helped by the staff of the department.

Sugar Department

In the sugar department there are five sets of courses.

- (1) An ordinary two years' diploma course for sugar technology for which the minimum qualification for admission is B. Sc degree in Science or Agriculture. Ten students are admitted to this course in addition to those nomi

nated by the Imperial Council of Agricultural Research who should also possess the same qualifications.

(2) A two years post diploma course to which two students who have obtained the diploma of the Institute may be admitted each year

(3) A two years' course for sugar analysts to which students who have passed the Intermediate Examination with Science are admitted.

(4) A one year's course for sugar boilers to which students holding a High School Examination Certificate are admitted

(5) A one year's course for foremen in the *khandsars* industry to which students who have completed a course of training in a recognised technical school are admitted

Oil Department

There are five sets of courses in this department.

(1) A two years diploma course for oil technologists to which ten students who possess the B. Sc., degree in Science or Agriculture are admitted every year.

(2) A two years' post diploma course to which two students, who have obtained the diploma of the Institute, may be admitted each year.

(3) A short course of six to eight months for those possessing the B. Sc., degree in Science or Agriculture, in (i) oil milling, (ii) soap-making, or (iii) the preparation of oils paints and varnishes.

Students who pass the two years' diploma course for sugar or oil or satisfactorily complete the two years' course in the general research department will be awarded diplomas and will be entitled to call themselves Associates of the Harcourt Butler Technological Institute (A. H. B. T. I.) Those who satisfactorily complete the post diploma course of two years will be awarded special certificates and will be called Fellows of the Harcourt Butler Technological Institute (F. H. B. T. I.) The students who complete the minor courses in the sugar and oil departments will be awarded certificates of training.

No tuition fee is charged from U. P. students. Non U. P. students are only admitted on payment of a special fee fixed by the local Government. Candidates nominated by the Imperial Council of Agricultural Research for the sugar department are, however, exempted from paying any tuition fee.

In each of the sugar and oil departments two studentships every year of Rs. 25 per month each are awarded by the head of the department on the results of the first terminal examination, in the general research department there is only one studentship of Rs. 25 per month which is awarded by the Board of Studies and Research on the recommendation of the head of the department to one of the two students admitted to this department each year. In addition to these studentships, one scholarship of Rs. 60 per month is also awarded in each of the sugar and oil departments every year on the result of the diploma examination, to the students who take the post diploma courses.

These studentships and scholarships are ordinarily tenable for two sessions of ten months each

The application for admission should be made in the prescribed form and should reach the Principal complete in every respect before June 10. A deposit of Rs 15 should be sent along with the application. The deposit of students who are admitted will be retained as caution money and the deposit of candidates who are not admitted will be returned.

There is a hostel attached to the Institute. It provides accommodation for forty students. A fee of Rs 3 per month per student is charged. Students make their own messing arrangements.

N B.—The above are new regulations and these cancel the prospectus given on pages 235—239

INDEX.

Aluminium Casting	...	159, <i>See also Metal Work.</i>
Architecture	...	6, 77, 116, 240
Art Teachership	...	36, 46, 77
B. Sc. Technical Honours Course	..	203, 222
Bamboo Work	50, 56, 57,	<i>See also cane work.</i>
Basket Making	...	122, 129, 164
Blanket Weaving	120, 122, 136,	<i>See also Carpet Weaving and Wool Weaving.</i>
Black Smithy	4, 6, 12, 14, 15, 17, 19, 21, 24, 27, 32, 35, 50, 53, 55, 56, 57, 58, 59, 61, 65, 103, 104, 106, 107, 108, 116, 120, 122, 129, 140, 148, 150, 153 to 168, 175, 176, 200, 226, 229, 244, 256	
Boat Making	...	61
Book Binding	...	25, 44, 50, 65, 148, 163, 190, 240
Book Illustration	...	46
Boot Making	<i>See Leather Work.</i>	
Brass Art Work	118,	<i>See also Metal Working.</i>
Brass and Copper Smithy	...	56, 61, 103, 116, 148, 219, 240
Building Construction	...	74, 75, 106, 136, 244,
	<i>See also Masonary.</i>	
Button Making	...	30
Biochemistry	...	51, 170, 203, 222

- Cabinet Making and Upholstery ... 4, 12, 15, 27, 55,
75, 110, 117, 132, 142, 145, 151 to 168, 175, 176,
197, 200, 212, 214, 217, 229
- Calico Printing ... 6, 22, 122, 191, 231, 232
- Candle Making 90
- Cane and Bamboo Work ... 50, 56, 57, 58, 161
- Carpentry Drawing ... 54, 74, 76, 102, 105, 106, 107
- Carpentry ... 4, 12, 14, 15, 17, 19, 21, 24,
27, 32, 35, 41, 42, 49, 51, 53, 54, 56, 57, 58, 59,
60, 61, 73—76, 102, 103, 105—110, 112, 116,
120, 122, 129, 140, 145, 148, 151 to 168, 175,
176, 190, 200, 214, 242, 244, 256
- Carpet and Durrie Making. 22, 29, 110, 122, 136, 151, 154
- Carving 109, 116, 148, 150
- Ceramics *See Pottery.*
- Chemical Engineering ... 223
- Chemistry, Industrial 26, 205, 222, 235
- Chemistry, Technical ... 205, 222, 235
- Cinematography 254
- Clay Modelling 41, 46, 50, 53, 107, 199
- Coir Manufacture ... 136
- Cutlery ... 50, *See also Metal Work.*
- Cycle Repairing 190
- Compositing *See Press Work.*
- Decorating 129, 148, 200
- Designing ... 116, 118, 142, 175, *See also Drawing.*
- Dismantling 44

Drawing	...	7, 36, 40, 46, 48, 54, 74, 75, 77, 103, 107, 141, 144, 148, 150, 175, 197, 199, 207, 229, 240
Drawing, Mechanical	...	135, 136, 204, 212
Turner Making	...	22, 29
Drug Manufacture	...	51, 52, 90
Dyeing and Calico Printing		6, 13, 22, 29, 33, 50, 51, 65, 90, 118, 122, 130, 140, 192, 232
Electric fitting and Wiring		12, 21, 27, 50, 61, 73, 110, 135, 182, 183, 256
Electroplating	.	26, 50, 118, 148, 197, 207, 212
Electropathy	—	186
Embroidery	...	30, 42, 65, 110, 122, 129, 151, 152, 153, 155, 168, 242
Enamelling		... 116, 200, 222
Engraving and Etching		36, 116, 142, 148, 175, 212, 240
Fabric Work	...	140, 136
Fitters Work	..	15, 17, 19, 27, 35, 56, 59, 104, 116, 140, 161 to 168, 175
Foundry Work		19, 61, 140, <i>See also Metal work and Machine Workshop.</i>
Food Preservation	...	44, 74, 90
Fret Work	...	41, 103
Furniture Making		<i>See Cabinet Making.</i>
Goldsmith's Work	...	116, 142, 200, 240
Handkerchief Making	...	30
Hat Making	...	49

- Hosiery . 156, 168, 186, 205, 206, 225, 244
- Inlaying *See* *Wood Working and Metal Work.*
- Ivory and Horn Work ... 149, 150,
- Jam and Chutney Making *See* *Food Preservation.*
- Jewellery *See* *Goldsmithy.*
- Knitting ... 22, 30, 37, 120, 140, 154
- Kiln Seasoning 217
- Koft Work ... 216
- Lace Making ... 30, 110, 155 to 168
- Lacquer Work. 65, 103, 110, 116, 117, 118, 122, 148, 200
- Leather Work ... 20, 38, 65, 138, 168, 205, 210,
216, 231, 235, 242
- Lithography ... 36, 46
- Lock Smithy ... 103, 140, 212
- Matting ... 56, 136, 148, 152, 154, 162 to 168
- Machine Workshop... 3, 6, 12, 15, 19, 21, 27, 35, 50, 53,
57, 65, 104, 108, 109, 110, 117, 129, 140, 145,
152, 178, 188, 207
- Masonry ... 135, 159, 256, *See also* *Building Construction.*
- Metal Work . 103, 104, 107, 135, 142, 145, 148,
152, 168, 175, 178, 197, 199, 207, 211, 226, 240
- Mistry Work ... 102, 107, *See also* *Masonry.*
- Modelling .. 3, 16, 129, 142, 152, 168, 175, 200
- Motor Driving ... 12, 73, 104, 140, 145, 152, 153,
167, 165, 169
- Motor Mechanics 3, 27, 53, 104, 140, 145, 153,
165, 167, 244

- Moulding ... 15, 17, 21, 27, 57, 140, 161, 162, 178
 Newar Weaving ... 22, *See also Durrie Making.*
 Needle Work 42, 151, 153, 155 to 168
 Oils, Fats and Waxes ... 26, 90, 223, 235
 Oil Engine Driving ... 4, 20, 116, 140, 143, 163
 Painting 3, 12, 15, 17, 19, 21, 22, 36, 41,
 46, 47, 48, 54, 74, 75, 77, 103, 107, 110, 116, 118,
 142, 148, 175, 199, 215, 217, 226, 240
 Paints and Varnish Manufacture 44, 99
 Paper Machie Work ... 46
 Pattern Making 19, 27, 57, 61, 140, 161, 178, 197, 207,
 Picture Framing ... 103
 Perfumery Making ... 43
 Photography ... 6, 44, 46, 54, 183
 Photo Engraving ... 6
 Polishing ... 12, 27, 103, 107, 116, 141
 Plumbing ... 135
 Polish Manufacture ... 44
 Plaster Casting ... 129, 200
 Pottery and Ceramics 65, 114, 116, 129, 150, 205, 221,
 222, 228
 Power Plant Operation ... 12, 21
 Printing ... 25, 27, 41, 47, 51, 135, 140, 163, 186
 Press Work ... 74, 25, 107, 140, 186, 229
 Proof Reading Work *See Press Work.*
 Radio Telegraphy ... 40
 Rattan Work ... 122, 140, 148, 152, 161, 165, 175, 176
 Rug Work *See Blanket Weaving.*

			244	
Sailing	...	...	77, 106	7
Sculpture	...			
Sewing	<i>See Tailoring.</i>			
Sign Board Painting	...		44, 103, 107	
Silver Smithy	<i>See Goldsmithy.</i>			
Silk Weaving	...	...	13, 33, 136	
Smithy	<i>See Blacksmithy</i>			
Soap Making	6, 42, 50, 52	90, 132, 150, 205, 222	255	
Sound Engineering	.		26, 235	
Sugar Manufacture	...	...
Spinning	<i>See Weaving</i>			
Steel Work	...	140, 159, 212 (Sheet metal).		
Tailoring and Cutting . .	37, 41, 42, 44, 45, 49, 51, 102,			
	104, 153 to 168, 190, 210	218, 226, 229, 241, 242		
Tannery	...	...	38, 239	
Tape and Wick Weaving	.	...	22, 154	
Telephone	...	40 44, 51, 90, 117, 185		
Textile Manufacture		91, 117, 136, 231, 234		
Tool Making	...	...	6, 12	
Toy Making	...	...	22, 122	
Tin Smithy	..	14, 32, 53, 56, 57, 58, 197		
Tinctorial Chemistry		...	43, 93	
Turning	...	46, 12, 17, 61, 103, 106, 107, 140,		
		161 to 168, 178, 207		
Tinning	...		141	
Toilet Manufacture			43	
Tile Making	...		129	

Weaving	...	2, 6, 14, 22, 27, 29, 30, 37, 44, 50, 51, 62, 65, 70, 73, 75, 104, 110, 112, 114, 117, 120, 122, 125, 130, 138, 148, 155 to 168, 176 179, 195, 224, 230, 231, 234, 242
Wireless	...	40, 48, 185
Wood Carving	...	116, 118, 129, 240
Wood Working	...	3, 4, 46, 103, 106, 107, 135, 143, 145, 152 to 168, 187, 197, 199, 214, 217, 240
Wool Spinning	...	18, 120, 122, 136,
Workshop Apprentice	...	249
Well Boring	...	141
Zinc Work	...	112
Zarnishan	.	116

Printed by Pt. Babu Ram Manager, at the Vidyā Parkash
Machine Press, Changar Mohalla, Anarkali, Lahore.

FORWARD BUREAU PRODUCTIONS.

India's Only and Most Popular Publications

on

Selection of

CAREERS

BY

M. C. Mohan, B.A.

*Director, Forward Bureau,
Genl Assistant, Sir Ganga Ram Trust,
Editor, The Widows' Cause & Incharge,
Sir Ganga Ram Business Bureau & Library, etc*

Producers

FORWARD BUREAU, Mohen Road, Lahore

Publishers & Sole Agents

RAM LAL SURI, Proprietor,

Students Own Agency and Law Books Agency,
Anarkali, Lahore

GUIDE TO IMPERIAL GOVERNMENT SERVICES

(Third Revised and Enlarged Edition)

It contains latest rules and regulations about the following services and competitive examinations. —

Indian Civil Service.	Survey of India
Indian Police Service	Zoological Survey of India
Indian Forest Service	Botanical Survey of India
Indian Service of Engineers	Northern India Salt Revenue
Indian Audit and Accounts Service	Department
Imperial Accounts Depart.	Imperial Secretariate.
Imperial Custom Service.	Imperial Bank of India.
Indian Geological Service.	Customs Department Services.
Indian State Air Service.	Superior Telegraphs and Wireless
Indian Archæological Depart.	Engineering Services (Posts and Telegraphs)
Indian Meteorological Depart	India Office.
Indian Mines Department.	League of Nation Translators
Indian Stores Department.	
<hr/>	
Indian Railway Accounts Service.	Transportation (Traffic) and Commercial Depart Rly
Sub Railway Accounts Service	Mechanical Engineering, Electrical Engineering.
Indian Railway Service of Engineers	Transportation (Power) and Signal Engineering Deptt.
Medical Department of the Indian State Railway	Coal Department, Collieries and Inspection. Depart
<hr/>	
Indian Medical Service	Military Grass Farm.
Military Engineers Service.	Military Dairy Farm.
Indian Officers (I. A. S C)	Indian Military and Air Services.
Indian Artificers (I. A. S C).	
Storekeepers and Storemen.	Royal Indian Marine.

GUIDE TO PUNJAB GOVERNMENT SERVICES

(Second Revised and Enlarged Edition).

It contains latest rules and regulations governing entry to following services and competitive examinations. —

Punjab Civil Service (Executive).	Punjab University Services.
Tahsildars & Naib-Tahsildars	Punjab Civil Service (Judicial).
Police Inspectors and Sub-Inspectors.	Zilladars and Patwaries.
Provincial and Sub. Forest Services.	Deputy Superintendents Jails.
Provincial and Sub. Agriculture Services	Assistant Superintendents Jails.
Provincial and Sub. Engineering Services.	Apprentice Assistant Jailors.
Divisional Accountants.	Excise Inspectors and Sub-Inspectors
Provincial and Sub. Education Service.	Station and Civil Service Telegraphists.
Sanitary Inspectors and Vaccinators.	Co operative Societies Inspectors.
Civil Sub. Assistant Surgeons.	Post Office Inspectors
and Clerical establishment in	Income Tax Inspectors.
Financial Commissioners, Accountant-General, Directors of Agriculture, Industries, Public Instruction, Public Health and Veterinary Services, Post and Telegraph, High Court, Government Printing Press, etc	Compounders and Librarians.
Bridge Inspectors, (Railway).	Provincial and Sub Veterinary Services.
Train Examiners, "	
Signal Inspectors, "	
Guards and Station Masters.	Permanent Way Apprentices
Booking and Goods Clerks.	Trade Apprentices and Apprentice Mechanics.
Firemen.	and Clerical Services in Chief Auditor's, Agent's and all other offices of Railway.
Clerks and Storekeepers.	
Indian Officers (I. A. S. C.).	Indian Army Veterinary Corps
Indian Artificers (I. A. S. C.).	Indian Army Ordinance Corps
Military Farms.	Ordinance Factory Apprentice
Military Sub. Assistant Surgeons.	Indian Corps of Clerks.
Army Remount Department.	Storekeepers and Storemen.
Page 294.	Military Accounts Department.

GUIDE TO FOREIGN STUDIES*(Second Revised and Enlarged Edition)*

Contains information regarding facilities for higher studies of Indians in various branches of Engineering, Technical, Medical, Commercial, Agricultural, Forest, Dental, Training, Industrial and all modern Sciences and Arts at Universities and Colleges in U.S.A., Germany, France, Japan and Switzerland. It deals with conditions of entry to the countries, the system of education there the Universities and Colleges, conditions of admission to various courses, degrees and diplomas conferred (by correspondence courses also), exemption from parts of studies or competitive examination for admission, monthly and total expenses, voyage expenses, visa and passport regulations, chances of self maintenance, etc.

Pages 232**Price Re 1 8 0 Cloth Bound Rs. 2.****GUIDE TO BRITISH STUDIES***(Second Revised and Enlarged Edition)*

Contains information about higher studies in England, Scotland and Ireland with an idea of education, etc., at the Universities of Canada, Australia, New Zealand, Union of South Africa, Malta, Hong Kong, Ceylon, etc. The book is written on the same lines as the above but its speciality is that it contains comprehensive information about professional diplomas and degrees recognised by the Indian Government for entry into government services such as L.R.C.P., M.R.C.S., F.R.C.V.S., D.P.H., L.D.S., AMICE AMIEE AMIME, N.D.A., N.D.D., Institutes of Bankers, of Actuaries, of Chartered Accountants, of Incorporated Accountants, of Chemistry, of Physics, Bar-at-Law, etc. etc.

Pages 228**Price Re 1-8 0 Cloth Bound Rs. 2**

GUIDE TO SMALL-SCALE INDUSTRIES

(2nd Revised and Enlarged Edition)

CONTENTS.

It contains upto-date information for start of following industries —

Absorbant Cotton

Automobile Industry (Motor Repair Workshops, Painting Workshops, Motor Body Building, etc)

Bakery and Biscuit Making (also Chocolate, Lozenges, Sweets, Candy, Cakes, etc)

Button Manufacture.

Brush Manufacture

Book Binding (Machinery)

Cigarette and Cigar Manufacture

Textiles (Hosiery, Cottons, Power looms, Carpets, Silks, Wools, Durries, Ropes, Laces, Braids, Tags, Shoe Laces, Artificial Silk, etc)

Film Production (Silent, Talkies)

Leather (Boots and Shoes, Beltings, Suit cases, Holdalls, Imitation Leather, etc)

Wood (Toys, Sawing, Barrel, Cabinet, etc).

Toys (Wood, Mechanic, Rubber, Tin, Cardboard, Celloloid)

Metallic (Cutlery, Locks, Bolts and Nuts, Wire Nettings, Agricultural Implements, Brasswares, Utensils, Aluminium, Nibs, Pins, Razors and Razor blades, Lanterns, Trunks and safes, Building Materials, Clips, etc)

Printing (Tin Sheet Printing also)

Enamelled Wares

Laundry (Steam)

Oil Cloth (Manufacture.)

Electric Goods Manufacture.

Stationary Goods Manufacture (Fountain Pen, Penholders, Nibs, etc.

Sand Paper Manufacture

Sports Goods Manufacture, etc.

Some copies of 1st Edition are available at Rs. 3 a copy (Full price)

Under Print.

Forward Bureau Series

Nos 6.

GUIDE TO INDIAN ENGINEERING STUDIES

(Third Revised and Enlarged Edition)

Contains latest prospectuses of all Engineering (Civil, Mechanical, Electrical, Aeronautical, Automobile, Architectural, Textile, Chemical, Sanitary, Mining, Metallurgy, etc., etc.) Institutions throughout India and Burma. It also contains rules and regulations about paid apprenticeship in railway workshops and trade apprenticeship.

Page 250

Price Rs 1-8 0

Forward Bureau Series.

No. 7

GUIDE TO INDIAN PROFESSIONAL STUDIES

(Second Revised and Enlarged Edition)

Contains latest prospectuses of all Agricultural, Banking, Commercial, Dairying, Forest, Law, Medical, Music, Military, Poultry Rearing, Teaching, Physical Training and Veterinary Institutions in India and Burma and rules and regulations of research work in industries, Examinations of Oxford, Senior Cambridge, London Chamber Commerce etc.

Pages 560

Price Rs 3 8-0 (Cloth Bound)

Forward Bureau Series

No 15

GUIDE TO INDIAN INDUSTRIAL STUDIES

(Third Revised and Enlarged Edition)

Contains latest prospectuses of all Institutions throughout the country imparting training in Industrial subjects (like Sugar, Bio-Chemistry, Soap, Perfumes, Basket weaving, Candle making, Painting, Book binding, Carpet weaving, Cutlery, Dyeing, Drycleaning, Electroplating, Goldsmithy, Hosiery, Lathework, Masonry, Metal work, Oil and paints manufacture, Photography, Tailoring, Painting, Silk weaving, Textile, Telegraphy, Wireless, Woodworking etc., etc.) It also contains rules and regulations about paid apprentices in Ordnance Factories and railway training.

Pages 250

Price Rs. 1-8.

Forward Bureau Series

No. 8.

GUIDE TO HIGHER SCHOLARSHIPS

It contains latest rules and regulations about grant of all scholarships (above the value of Rs 30 p.m.) granted by Governments (Imperial or Provincial), Universities, Departments of Industries, of Agriculture, of Public Instructions, Indian States; Public Bodies like Sri Ganga Ram Trust, King Edward Memorial Society, Indian Central Cotton Committee, etc, etc

Pages 369

Price Rs 3

Forward Bureau Series

No 9

GUIDE TO INDIAN MANUFACTURERS

(Under Print)

It would be the most comprehensive and most authentic Directory containing full and latest addresses of all firms as manufacture any commercial product in India. It is intended to advocate and popularise Indian manufactures

Forward Bureau Series

No 10

GUIDE TO CAREERS FOR GIRLS

It contains full information about Imperial and provincial government services open to women, throughout the country. It contains latest prospectuses of all Medical (including Nursing, Dais, Midwifery, etc), Training (including Kindergarten), Law, Industrial Commercial and other special institutes (as Physical Education and Dancing) open to girls in India and Burma. It also contains full information about scholarships offered by Government, Indian States, Public bodies, for studies in India and abroad.

Page 450

Rs 3.

**GUIDE TO AGRICULTURAL
INDUSTRIES***(2nd Revised and Enlarged Edition)*

Contains comprehensive information on the possibilities of working the following profitable agricultural Industries in India, estimates for starting them, methods of manufacturing them, experts in line, facilities for training in the line, Books and Journal dealings with the subject, etc

Important Contents

Agricultural Industries	Lac and Shellac Industries
Agricultural Implements	Mango Preservation
Manufacture	Nursery.
Bee Keeping	Oil Industry
Bio chemical Industries	Pig Farming
Coir Manufacture	Power Farming
Dairying	Poultry Rearing
Drug Industry	Rice Hulling
Duck Breeding.	Sericulture
Fibrous Industries	Sheep Rearing
Fisheries	Sugar Industry
Flour Milling	Rope Industry
Forest Industries	Tanning
Fruit Industries	Tube Well Boring
Fruit Preservation	Vegetable Growing
Goat Keeping	Vinegar Manufacture
Horse and Dog Breeding	

GUIDE TO CAREERS FOR INDIAN*(2nd Revised and Enlarged Edition.)***CONTENTS**

Acting	Export and Import.
Accountancy	Forestry
Actuarial Science	Hotel and Restaurant
Advertising	Horticulture. (Gardening)
Agriculture	Insurance
Army	Journalism.
Art (Painting Sculptor, etc.	Librarian
Auctioneering	Law
Authorship	Medicine
Aviation	Music.
Banking.	Navy
Business and Commerce	Optometry.
(Trade)	Pharmacy
Civil Service (Including	Photography (Including
Stenotyping)	Cameramanship).
Dentistry.	Priesthood
Education	Police
Engineering. (Mech, Elect,	Politics
Civil, Textile Sanitary,	Publishing
Sound Recording, Aeron-	Social Service
autical, etc.).	Salesmanship (Mail order
Electricity	etc)
	.

Deals with chances for above named vocations and professions for Indian; conditions and qualifications essential to adopt these, facilities for necessary preliminary training and apprenticeship required, books and journals helpful, etc.

Under Print.

GUIDE TO CHEMICAL INDUSTRIES

(2nd Revised and Enlarged Edition)

Deals with the possibilities and start of following industries in India with small capital, the methods of manufacturing them practically and facilities in setting up these industries, facilities in receiving training for starting of industries, experts on the line, books and journals dealing with the subject, addresses of firms dealing in requisite machinery, important like factories running in India, etc

Acids (Sulphuric, Nitric, etc)	Glazed Pottery
Alkalies (Potash, Soda, Ammonia etc)	Glues and Gums
Alums	Ice
Artificial Mineral Waters	Inks
Beverages	Margarine
Bleaching, Dyeing, Dry	Matches
Cleaning	Milk Sugar
Candle	Paints, Varnishes, Polishes, Colours, Dyes, etc.
Celluloid	Plaster of Paris
Ceramics	Resin and Turpentine Oil
Disinfectants	Soaps, Hair Oils, Perfumes,
Distillation of Wood and Coal Tar	Ottos, Uitar, Face, Powders, Creams, Essences, etc
Drugs and Medicines.	Toothpastes
Enamelling	Vegetable ghee
Fertilizers and Manures	Vegetable Oils
Foodstuffs	Vitamines
Fruit Canning, etc	
Glass.	

Under Print

INDUSTRIAL ARTS FOR INDIANS*(2nd Revised and Enlarged Edition)***CONTENTS**

Artificial Flower Making	Gold and Silver Wire and Leaves making
Basket Making	Goldsmithy
Biri Making	Hair Dressing
Block Making (Line, Process Tone)	Hats and Caps Making
Boat Making	Hosiery
Book Binding	Inlaying
Boot and Shoe Manufactur- ing	Kiln Operating
Brass Badges Making	Knitting
Cabinet Making	Lace and Braid Making
Cane Weaving	Lacquer Work
Carpentry	Lithography
Carriage Making.	Lock Making
Carpet Weaving	Mirror Making
Chair Weaving	Music Instruments Making
Clay Modelling	Optical Goods
Compositing and Printing	Painting
Cookery and Confectionery	Rubber Stamps Making
Cutlery	Sculptoring
Dyeing and Calico Printing	Smithy and Forging.
Electroplating	Staining and Gilding Glass
Embroidery	Stereotyping
Enamelling (Sign Board)	Tailoring
Engraving and Etching	Turnery
Etching and Embossing on Glass	Watch, Clock and Gramophone Repairing
Galvanising	Weaving and Spinning
	Wood Carving and Engrav- ing

Under Print

The Bombay Chronicle says —

A mine of information for those seeking service or opportunities for studies. The author has really done a thankless task very well and deserves the gratitude of those middle class youngmen who are casting about in search of career.

The Hindustan Review says —

These are very useful books. They should be of great help to students, post students and their parents in selecting future courses of study, etc.

The Tribune says —

Useful to all those who have not yet decided upon any career for themselves, as also to those who are ever on the outlook to find out fresh lines to better their future prospects.

The Civil and Military Gazette writes —

Instead of dropping haphazard into some line which might in the future prove quite unsuitable and uncongenial, a perusal of these volumes would give an indication to the youth just entering upon life's struggle to enable him to choose judiciously the avocation which would not only bring him his living but which would also provide him with a career compatible with his individuality.

The Hindu, Madras writes —

Mr Mohan is a pucca Benthamite in his motives and has designed each book to be of maximum utility to the largest numbers. His books help young men and women in the proper choice of careers.

The Hindustan Times writes —

The publishing of such books was long over due and we congratulate the author on his pioneer attempts.

Similar reviews have been made by *the Leader*, Allahbad, *the Sindh Observer*, Karachi, *the Rangoon Times*, Rangoon, *the Liberty*, Calcutta; *the Industry*, the *Indian Review*, and all other important dailies and journals of the country.